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CHECKLIST

A check-list of Geometridae (Insecta, Lepidoptera) of the Tyumen Region of Russia

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Abstract

A list of 247 species of Geometrid moths from 5 subfamilies (Archiearinae – 3 species, Ennominae – 70 species, Geometrinae – 9 species, Larentiinae – 132 species, Sterrhinae – 33 species) from the territory of Tyumen Region (including Yamalo-Nenets Autonomous Okrug and Khanty-Mansy Autunomous Okrug) is given. 86 species are reported for the first time. The historical overview of the Geometridae study in the Tyumen Region provided.

Keywords

Lepidoptera, Geometridae, study history, check-list, Tyumen Region, Russia

Introduction

The history of Geometridae study in the Tyumen Region, including the Khanty-Mansiysk and Yamalo-Nenets Autonomous Okrugs, began with the collections made during the expedition by B.M. Zhitkov in 1908 (Tschetverikov, 1911). The active study of the entomofauna in Western Siberia, including the Tyumen Region with the autonomous districts, started at the beginning of the 20th century. As a

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result, nine papers were published with varying degrees of territorial coverage and species diversity, including Geometrid Moths (Tschetverikov, 1911; Tschugunov, 1914, 1917, 1925; Shuhov, 1914; Shchuko, 1916; Vnukovsky, 1927; Kolosov, 1933; Fridolin, 1935).

This is followed by a period of more than 30 years in which we have not noticed a single publication on this group of Moths. From the end of the 1960s to 2000, five works were published with indications of Geometridae (Mershalova, Polushkina, 1967; Korshunov, 1973a, 1973b; Vasilenko, 1990; Olshvang, 1992).

In the modern period from 2001 to the present day, 23 works have been published. But it should be noted that most of them, 12 works, are aimed at preparing the Red Books, updating them, as well as an inventory of certain specially protected natural areas, and do not include information about the findings of new species of Geometrid moth for the Tyumen Region (Lomakin et al., 2001; Red book of the Tyumen Region, 2004, 2019; Sitnikov et al., 2004; Tolstikov, 2004; Red book of the Yamalo-Nenets Autonomous Okrug, 2010; Kalinin, 2012; Galich, 2013; Sitnikov et al., 2013; Tolstikov et al., 2013; Stolbov et al., 2017; Strelnikova, Moseevsky, 2018). The remaining 11 works contain the indications of finds of new species of Geometridae for the Tyumen Region (Sizov, 2001, 2002, 2003, 2004; Vasilenko, 2002, 2003, 2007; Hausmann, 2004; Bukhkalo et al., 2014; Skou, Sihvonen, 2015; Müller et al., 2019).

Material and methods

The material for this work was taken from different publications on Geometridae of the Tyumen Region and Autonomous Okrugs from the beginning of research in 1911 to the present days.

The work also presents an extensive unpublished material accumulated over 45 years, including: the collection of P.S. Sitnikov, made from 1976 to 1999 (the material is kept in the funds of the I.Ya. Slovtsov Museum Complex (Tyumen); the collectings of A.A. Sizov from 1998 to 2002 (the material is kept in different funds: the I.Ya. Slovtsov Museum Complex (Tyumen), the Tyumen State University Museum of Zoology, the Zoological Museum of the M.V. Lomonosov Moscow State University, Moscow State Forest University, Institute of Systematics and Ecology of Animals SB RAS (Novosibirsk), Zoological Institute RAS (St. Petersburg); the collectings of D.E. Galich from 2008 to 2020 (the material is kept in the private collection (Tyumen); the materials of S.A. Knyazev and V.O. Zurilina (in private S.A. Knyazev collection (Omsk); single finds of O.G. Krevskoy, E.I. Kochegova, A.V. Soromotina, V.V. Sinitsina, (collections are kept in the funds of the I.Ya. Slovtsov Museum Complex (Tyumen) and K.P. Samko (the surviving collections are in the Tobolsk Historical and Architectural Museum-Reserve (Tobolsk).

Identification of species from the collections of P.S. Sitnikov, A.A. Sizov, O.G. Krevskoy, E.I. Kochegov, A.V. Soromotin, V.V. Sinitsin was carried out by †E.M. An-

tonova (Moscow), V.G. Mironov (St. Petersburg), and S.V. Vasilenko (Novosibirsk); identification of the material of D.E. Galich was carried out by S.A. Knyazev.

The general system and order of taxa are given according to the catalog of Lepidoptera of Russia (Beljaev et al., 2019).

Accepted abbreviations and notation: TO – Tyumen Region (without Autonomous Okrugs), KMAO – Khanty-Mansi Autonomous Okrug-Yugra, YNAO – Yamalo-Nenets Autonomous Okrug, NP – natural park, spm. – specimen(s), * – species reported from the Tyumen Region for the first time.

Geographical coordinates of the collection sites

Yamalo-Nenets Autonomous Okrug:

1. Aksarka – vicinity of Aksarka village in Priuralsky district, 66°33'29.4"N, 67°47'10.8"E;
2. Gubkinsky – vicinity of Gubkinsky city, 64°25'54.8"N, 76°31'17.1"E;
3. Korotchaevo – Korotchaevo village in Purovsky district, 65°56'0.5"N, 78°11'42.3"E;
4. Krasnoselkup – vicinity of Krasnoselkup village in Krasnoselkupsky district, 65°42'2.8"N, 82°29'12.7"E;
5. Krasnyi Kamen` – Polar Ural, 38 km NW of Labytnangi, 9 km N of Kharp village, 141 km station, Slantsevaya mountain, 66°54'22.41"N, 65°44'23.80"E (Fig. 1);
6. Labytnangi – Labytnangi city, 66°39'22.26"N, 66°23'52.06"E;
7. Muravlenko – vicinity of Muravlenko city, 63°24'12.0"N, 74°44'11.1"E;
8. Muzhi – vicinity of Muzhi village in Shuryshkarsky district, 65°24'26.8"N, 64°42'17.1"E;
9. Novy Urengoy – Novy Urengoy city, 66°05'47.5"N, 76°39'07.5"E;
10. Noyabrsk – vicinity of Noyabrsk city, 63°10'02.0"N, 75°25'00.0"E;
11. Ratta – vicinity of Ratta village in Krasnoselkupsky district, 63°31'02.9"N, 83°51'04.2"E;
12. Salekhard – Salekhard city, 66°33'07.6"N, 66°33'58.3"E;
13. Teuteyaga – Teuteyaga (Teutey-Yaga) river in Yamalsky district, 66°32'00.0"N, 70°39'00.0"E;
14. Tolka – vicinity of Tolka village in Purovsky district, 63°23'53.3"N, 80°05'13.7"E;
15. Yuribey – near the Yuribey river, in South Yamal, 69°00'16.9"N, 70°23'52.4"E.

Khanty-Mansi Autonomous Okrug-Yugra:

16. Agan – vicinity of Agan village in Nizhnevartovsky district, 61°38'20.0"N, 75°05'02.2"E;
17. Agirish – vicinity of Agirish village in Sovietsky district, 61°55'00.0"N, 63°00'00.0"E;

18. Beloyarsky – Beloyarsky city, 63°43'1.1"N, 66°54'52.5"E;

19. Berezovo – Berezovo village in Berezovsky district, 63°56'16.3"N, 65°02'39.9"E;

20. Bolshetarkhovo – Bolshetarkhova village in Nizhnevartovsky district, 61°06'13.5"N, 77°10'41.9"E;

21. Khanty-Mansiysk – Khanty-Mansiysk city, 60°59'54.6"N, 69°01'41.7"E;

22. Komsomolsky – vicinity of Komsomolsky village in Oktyabrsky district, 62°15'52.1"N, 66°59'45.2"E;

23. Kondinskoe – vicinity of Kondinskoe village in Kondinsky district, 59°38'57.2"N, 67°24'42.8"E;

24. Malinovsky – vicinity of Malinovsky village in Sovietsky district, 61°11'00.0"N, 62°48'00.0"E;

25. Nefteyugansk – vicinity of Nefteyugansk city, 61°06'02.2"N, 72°36'01.9"E;

26. Numto – Numto lake in Beloyarsky district, 63°30'49.8"N, 71°20'21.3"E;

27. Oktyabrskoe – vicinity of Oktyabrskoe village in Oktyabrsky district, 62°27'28.3"N, 66°02'17.2"E;

28. Pasol – Pasol village (non-residential) in Nizhnevartovsky district, 60°51'01.9"N, 77°01'58.5"E;

29. Pokachi – vicinity of Pokachi city, 61°43'00.0"N, 75°22'00.0"E;

30. Pripolyarnyi – vicinity of Pripolyarnyi village Berezovsky district, 63°13'11.0"N, 60°14'05.0"E;

Figure 1. Polar Ural, 38 km NW of Labytnangi, 9 km N of Kharp village (photo by S. Knyazev).

31. Tayozhny – vicinity of Tayozhny village in Sovietsky district, 61°10'04.2"N, 62°40'51.3"E;

32. Tolya – river bank Tolya, near the Pripolyarnyi village in Berezovsky district, 63°12'4.5"N, 59°37'26.3"E;

33. Ust`-Balyk – Ust`-Balyk field on the border of the Surgutsky and Nefteyugansk districts, 61°04'18.7"N, 72°36'28.5"E;

34. Wah – Wah village in Nizhnevartovsky district, 61°06'00.0"N, 77°56'00.0"E;

35. Zelenoborsk – vicinity of Zelenoborsk village in Sovietsky district, 61°28'15.2"N, 64°02'40.0"E.

Tyumen Region (without Autonomous Okrugs):

36. Abalak – vicinity of Abalak village in Tobolsky district, 58°08'00.0"N, 68°35'00.0"E (Fig. 2);

37. Abatsky – vicinity of Abatskoe village in Abatsky district, 56°17'19.1"N, 70°28'14.7"E;

38. Abramova – Abramova village in Tobolsky district, 58°24'23.8"N, 68°25.40.4"E;

39. Andreevskoe – Andreevskoe lake, vicinity Tyumen city, 57°01'00.0"N, 65°49'00.0"E;

40. Babarynka – floodplain of Babarynka river within Tyumen city, 57°10'12.8"N, 65°29'09.3"E;

41. Baikalovo – vicinityy of Baikalovo village in Tobolsky district, 57°47'00.0"N, 67°39'00.0"E;

42. Big Krasnoyar – vicinity of Bolshoy Krasnoyar village in Omutinsky district, 56°34'00.0"N, 67°42'00.0"E;

43. Big Kunchur – vicinity of Big Kunchur lake in Nizhnetavdinsky district, 57°16'38.9"N, 66°11'10.6"E;

44. Bogandinskoe – vicinity of Bogandinskoe village in Tyumensky district, 56°53'02.4"N, 65°52'07.4"E;

45. Chervishevo – vicinity of Chervishevo village in Tyumensky district, 56°56'00.0"N, 65°28'00.0"E;

46. Chernoe – vicinity of Chernoe village in Vagaisky district, 57°39'18.5"N, 69°10'24.5"E;

47. Derbyshi – vicinity of Derbyshi village in Tyumensky district, 57°07'36.7"N, 65°28'05.1"E;

48. Dubrovnoe – vicinity of Dubrovnoe village in Yarkovsky district, 57°08'52.9"N, 66°33'35.1"E;

49. Durynina – Durynina village in Tobolsky district, 58°20'17.7"N, 68°18'46.0"E;

50. Eco trail – Ecological trail within the Tobolsk city, 58°17'02.5"N, 68°28'14.3"E;

51. Embaevo – vicinity of Embaevo village in Tyumensky district, 57°09'00.0"N, 65°46'00.0"E;

52. Ermak's garden – Ermak's garden in the historical part of Tobolsk, 58°11'58.7"N, 68°15'24.9"E;

53. Golyshmanovo – Golyshmanovo railway station in Golyshmanovsky district, 56°23'22.6"N, 68°22'37.0"E;

54. Gulyai-Pole – vicinity of Gulyai-Pole village in Sladkovsky district, 55°21'04.6"N, 70°22'34.6"E;

55. Ivashkina – vicinity of Ivashkina village in Nizhnetavdinsky district, 57°34'53.5"N, 66°18'20.4"E;

56. Ingair – Ingair railway station in Tobolsky district, 58°36'26.2"N, 68°46'54.0"E (Fig. 3);

57. Ishim – Ishim city, 56°07'00.0"N, 69°30'00.0"E;

58. Istoshino – Istoshino village vicinities in Berdyuzhsky district, 55°57'57.48"N, 68°07'25.48"E;

59. Kalmakskoe – vicinity of Kalmakskoe village in Armizonsky district, 55°45'34.7"N, 67°59'08.8"E;

60. Kamenka – vicinity of Kamenka village in Tyumensky district, 57°16'09.1"N, 65°06'15.8"E (Fig. 4);

Figure 2. Vicinity of Abalak village in Tobolsky district (photo by P. Sitnikov).

61. Karasulskaya – Karasulskaya railway station in Ishimsky district, 56°16'59.7"N, 68°55'39.8"E;

62. Kazanskoe – Kazanskoe village in Kazanskiy district, 55°38'24.9"N, 69°13'36.3"E;

63. Komissarovo – vicinity of Komissarovo village in Zavodoukovsky district, 56°14'00.0"N, 66°50'00.0"E;

64. Knyazhevo – vicinity of Knyazhevo village in Tyumensky district, 57°12'35.5"N, 65°26'19.2"E;

65. Krugloye – Krugloye lake in Tyumensky district, 57°06'00.0"N, 65°55'00.0"E;

66. Kryukovskoe – vicinity of Kryukovskoe lake in Vagaysky district, 57°50'00.0"N, 69°08'00.0"E;

67. Kuchak – Kuchak lake in Nizhnetavdinsky district, 57°22'4.2"N, 66°04'21.5"E;

68. Kultybaika – vicinity of Kultybaika lake in Nizhnetavdinsky district, 57°25'26.5"N, 66°22'37.1"E;

69. Kushluk – vicinity of Kushluk village in Berdyuzhsky district, 55°32'35.8"N, 68°32'22.0"E;

70. Lesozavodsky – Lesozavodsky village in Nizhnetavdinsky district, 57°22'41.7"N, 65°33'54.4"E;

71. Lipovoe – Lipovoe lake vicinity in Tyumensky district, 57°15'43.1"N, 65°37'11.6"E;

72. Lukashinskoe – vicinity of Lukashinskoe lake in Tyumensky district, 57°18'00.0"N, 64°59'00.0"E;

73. Maika – Maika village vicinity in Abatsky district, 55°36'39.7"N, 70°30'21.0"E;

74. Malkovo – vicinity of Malkova village in Tyumensky district, 57°04'56.1"N, 65°40'11.3"E;

75. Maryino gorge – vicinity of NP Maryino gorge in Isetsky district, 56°27'10.7"N, 65°30'44.8"E (Fig. 5);

76. Maslyansky – vicinity of Maslyansky village in Sladkovsky district, 55°54'55.5"N, 70°09'5.0"E;

77. Mazurovo – vicinity of Mazurova village in Yarkovsky district, 57°52'00.0"N, 67°26'00.0"E;

78. Melioratorov – vicinity of Melioratorov village in suburbs of Tyumen city, 57°14'00.0"N, 65°39'00.0"E;

79. Missia – research station "Missia" in Uvatsky district, 58°43'14.7"N, 68°40'58.8"E (Fig. 6);

80. Moshkarinsky – Moshkarinsky reserve in Yalutorovsky district, 56°59'00.0"N, 66°35'00.0"E;

81. Motushi – Motushi village vicinity in Yarkovsky district, 57°07'50.6"N, 66°26'10.2"E;

82. Nadtsy – Nadtsy village vicinity in Tobolsky district, 58°37'39.8"N, 68°34'50.1"E;

83. Novoatyalovo – vicinity of Novoatyalovo village in Yalutorovsky district, 57°01'57.6"N, 66°39'33.5"E;

84. Omutinskoe – vicinity of Omutinskoe village in Omutinsky district, 56°29'00.0"N, 67°38'00.0"E;

85. Onokhino – vicinity of Onokhino village in Tyumensky district, 56°56'00.0"N, 65°33'00.0"E;

86. Ostropyatovo – vicinity of Ostropyatova village in Sladkovsky district, 55°39'18.1"N, 70°27'23.4"E;

87. Peña – Peña village vicinity in Tobolsky district, 58°39'53.1"N, 68°35'53.9"E;

88. Pesyanka – vicinity of Pesyanka village in Tyumensky district, 56°50'04.2"N, 65°45'02.9"E;

89. Rafailovo –Rafailovo village in Isetsky district, 56°25'00.0"N, 65°14'00.0"E;

90. Razhevo – vicinity of Razhevo village in Golyshmanovsky district, 56°09'51.5"N, 68°23'55.6"E;

91. Rechkina – vicinity of Rechkina village in Tyumensky district, 57°20'48.0"N, 64°55'21.0"E;

92. Reshetnikova – vicinity of Reshetnikova village in Tyumensky district, 57°14'50.4N, 65°24'06.1"E;

93. Salairka – Salairka village in Tyumensky district, 57°22'00.0"N, 65°00'00.0"E;

94. Sannikovo – Sannikovo village in Tobolsky district, 58°02'55.1"N, 68°36'05.6"E;

Figure 3. Ingair railway station in Tobolsky district (photo by D. Galich).

Figure 4. Vicinity of Kamenka village in Tyumensky district (photo by P. Sitnikov).

Figure 5. Vicinity of NP Maryino gorge in Isetsky district (photo by P. Sitnikov).

95. Shapkul – vicinity of Shapkul lake in Nizhnetavdinsky district, 57°24'51.4"N, 66°16'22.7"E;

96. Shashova – vicinity of Shashova village in Uporovsky district, 56°22'01.3"N, 66°20'35.8"E;

97. Sinitsynsky bor – Sinitsinsky Bor, coniferous forest in the vicinity Ishim city, 56°01'24.6"N, 69°28'51.8"E;

98. Siverga – vicinity of Siverga lake in Kazansky district, 55°28'04.7"N, 68°45'39.2"E;

99. Skiing lodge – Skiing lodge with in the Tobolsk city, 58°12'22.0"N, 68°17'34.7"E;

100. Sladkovo – vicinity of Sladkovo village in Sladkovsky district, 55°31'00.0"N, 70°22'00.0"E;

101. Sokolovka – Sokolovka village in Tobolsky district, 58°14'29.3"N, 68°21'32.0"E;

102. Stanichnoye – vicinity of Stanichnoye village in Sladkovsky district, 55°48'00.0"N, 70°11'00.0"E;

103. Staraya Shadrina – Staraya Shadrina village in Uporovsky district, 56°10'54.4"N, 65°51'37.1"E;

104. Sundunkul – Sundunkul lake vicinity in Nizhnetavdinsky district, 57°22'2.2"N, 65°45'12.2"E;

105. Tavolzhan – vicinity of Tavolzhan village in Sladkovsky district, 55°20'59.4"N, 70°10'07.2"E;

106. Tavolzhan (Island) – Tavolzhan Island in Sladkovsky district, 55°19'15.4"N, 70°06'55.6"E;

107. Tobolsk – Tobolsk city, 58°11'53.9"N, 68°14'17.6"E;

108. Travnoe – vicinity of Travnoe lake in Sladkovsky district, 55°44'53.2"N, 70°15'05.3"E;

109. Tyuleshov bor – vicinity of Tyleshov bor village in Vikulovsky district, 56°41'23.4"N, 70°40'29.2"E;

110. Tyumen – Tyumen city, 57°09'00.0"N, 65°31'00.0"E;

111. Tyumen (forest nursery) – the outskirts of Tyumen, a former forest nursery, 57°09'51.3"N, 65°26'02.9"E;

112. Tyumen (E) – near the city of Tyumen, 30 km to the East, 57°09'00.0"N, 65°48'00.0"E;

113. Tyumen (SE) – near the city of Tyumen, 5 km to the Southeast, 57°02'00.0"N, 65°40'00.0"E;

114. Tyumen (NW) – near the city of Tyumen, 35 km to the Northwest, 57°15'50.7"N, 65°18'8.4"E;

115. Uporovo – Uporovo village in Uporovsky district, 56°18'43.9"N, 66°16'24.7"E;

116. Uspenka – vicinity of Uspenka village in Tyumensky district, 57°03'00.0"N, 65°03'00.0"E;

117. Vagai – Vagai village in Vagaysky district, 57°56'00.0"N, 69°01'00.0"E;

Figure 6. Research station "Missia" in Uvatsky district (photo by D. Galich).

118. Vedenyatskoe – vicinity of Vedenyatskon lake in Uporovskiy district, 56°11'49.2"N, 65°49'03.1"E;

119. Velizhany – vicinity of Velizhany village in Nizhnetavdinsky district, 57°33'24.2"N, 65°47'38.5"E;

120. Vinokurova – vicinity of Vinokurov village in Tobolsky district, 58°20'28.6"N, 68°20'27.7"E;

121. Vlasovo – Vlasovo lake in Sladkovsky district, 55°32'00.0"N, 70°23'00.0"E;

122. Volgina – formerly the village of Volgina, now the outskirts of Tobolsk city, 58°16'13.7"N, 68°14'06.1"E;

123. Yalutorovsk – Yalutorovsk city, 56°39'12.1"N, 66°17'12.2"E;

124. Yarkovo – vicinity of Yarkovo village in Yarkovsky district, 57°23'51.6"N, 67°05'12.4"E;

125. Yushkova – vicinity of Yushkova village in Vikulovsky district, 56°52'00.0"N, 70°32'00.0"E;

126. Zavalnoye cemetery – vicinity of Zavalnoye cemetery within Tobolsk city, 58°12'57.9"N, 68°15'16.8"E.

Schematic map of the collection sites in the Tyumen Region is shown on Suppl. material 1: Map 1.

Results

Archiearinae

1. *Archiearis parthenias* (Linnaeus, 1761) – Shchuko, 1916:148 (*Brephos*, Tyumen); Mershalova, Polushkina, 1967:138 (*Brephos*, Tyumen); Bukhkalo et al., 2014:139 (Tobolsk). YNAO: Krasnyi Kamen`, 1-13.VII.2017 – 1 spm. V.O. Zurilina. TO: Abramova, 07.V.2019 – 1 spm. D.E. Galich; Andreevskoe, 25.IV.1980, 11.V.1991, 11.V.1992 – 5 spm. P.S. Sitnikov; Tyumen (SE), 29.IV.1981, 29.IV.1983 – 2 spm. P.S. Sitnikov.

2. *Archiearis notha* (Hübner, [1803]) – Bukhkalo et al., 2014:139 (Tobolsk). **TO:** Andreevskoe, 02.V.1997 – 1 spm. P.S. Sitnikov; Derbyshi, 09.V.1996 – 1 spm. P.S. Sitnikov; Skiing lodge, in the daytime, 11.VI.2006 – 1 spm. D.E. Galich; Tobolsk, 20.V.1931 – 1 spm. K.P. Samko.

3. *Leucobrephos middendorfii* (Ménétriés, 1858) – Müller et al., 2019: 520, 624 (Shuryskary).

Ennominae

4. *Cabera exanthemata* (Scopoli, 1763) – Tschetverikov, 1911:25 (*Deilinia sp.*? *exanthemata*, Yamalo-Nenets Autonomous Okrug); Korshunov, 1973b:183 (Durynina, Sokolovka, Tobolsk, Berezovo). **YNAO:** Gubkinsky, 9.VII.1999 – 1 spm. A.A. Sizov; Krasnoselkup, 11.VII.1989 – 1 spm. P.S. Sitnikov; Ratta, 17.VII.1989 – 1 spm. P.S. Sitnikov; Tolka, 14.VII.1989 – 1 spm. P.S. Sitnikov. **KMAO:** Beloyarsky, 13.VIII.1990 – 1 spm. P.S. Sitnikov. **TO:** Abatsky, 10.VII.2001 – 4 spm. A.A. Sizov; Andreevskoe, 18, 22, 23.VI. 9, 23, 30. VII, 22.VIII.1988 – 8 spm. P.S. Sitnikov, 25.VI.2000 – 1 spm. A.A. Sizov; Baikalovo, 5.VIII.1999 – 2 spm. A.A. Sizov; Big Krasnoyar, 18.VII.2001 – 1 spm. A.A. Sizov; Vinokurova, 4.VIII.1999 – 2 spm. A.A. Sizov; Ingair, 30.VI.1988, 15.VI.1991, 28.VI.1994 – 3 spm. P.S. Sitnikov; Kuchak, 29.VI. 1, 3, 10 VII.1998 – 8 spm. A.A. Sizov; Malkovo, 15.VIII.2001 – 1 spm. A.A. Sizov; Motushi, 1, 4.VII.1998 – 2 spm. P.S. Sitnikov; Nadtsy, 29-30.VI.1994 – 4 spm. P.S. Sitnikov; Peña, 1.VII.1994 – 2 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 1

spm. P.S. Sitnikov; Tyumen, 20.VI.1981, 11.VI. 3, 11, 18, 30.VII.1987 – 6 spm. P.S. Sitnikov; Chervishevo, 21, 26.VII.1987 – 2 spm. P.S. Sitnikov.

5. *Cabera pusaria* (Linnaeus, 1758) – Tschugunov, 1914:448 (*Deilinia*, Khanty-Mansi Autonomous Okrug-Yugra); Shchuko, 1916:148 (*Deilinia*, Karasulskaya); NP Kondinsky Lakes, 2012:235 (Khanty-Mansi Autonomous Okrug-Yugra); Bukhkalo et al., 2014:140 (Tobolsk). **TO:** Abatsky, 10.VII.2001 – 3 spm. A.A. Sizov; Andreevskoe, 23.VII, 22, 23.VIII.1988 – 3 spm. P.S. Sitnikov, 25.VI.2000 – 1 spm. A.A. Sizov; Vedenyatskoe, 12.VI.1989 – 1 spm. P.S. Sitnikov; Velizhany, 16.VI.1998 – 1 spm. P.S. Sitnikov; Dubrovnoe, 05, 10.VII.1999 – 2 spm. P.S. Sitnikov; Ingair, 30.VI.1988, 27.VI.1994 – 2 spm. P.S. Sitnikov; Ishim, 10.VII.2001 – 4 spm. A.A. Sizov; Kuchak, 1, 3, 18.VII.1998, 27.VI.1999 – 4 spm. A.A. Sizov; Lukashinskoe, 28.VI, 26.VII.1987 – 2 spm. P.S. Sitnikov; Mazurovo, 21.VI.1986 – 1 spm. P.S. Sitnikov; Motushi, 2.VII.1998 – 1 spm. P.S. Sitnikov; Nadtsy, 27.VI.1991 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov; Tyumen, 10.VI.1980, 14, 18.VI.1981, 7.IX.1986, 26.V, 11, 29.VI, 4.VII.1987 – 9 spm. P.S. Sitnikov; Tyumen (E), 29.V.1991 – 1 spm. P.S. Sitnikov; Chervishevo, 18.VIII, 21, 26.VII.1987 – 3 spm., P.S. Sitnikov; Shashova, 10.VI.2020 – 3 spm. D.E. Galich.

6. *Lomographa bimaculata* (Fabricius, 1775) – Bukhkalo et al., 2014:140 (Tobolsk). **TO:** Andreevskoe, 27.V.1999 – 3 spm. A.A. Sizov; Vagai, 21.VI.2002 – 2 spm. A.A. Sizov; Onokhino, 10.VI.1996 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 9.VI.1989 – 1 spm. P.S. Sitnikov; Tyumen, 18.VI.1981 – 1 spm. P.S. Sitnikov.

7. *Lomographa temerata* ([Denis et Schiffermüller], 1775) – Bukhkalo et al., 2014:140 (Tobolsk). **TO:** Onokhino, 10.VI.1996 – 2 spm. P.S. Sitnikov; Tyumen, 18.VI.1981 – 1 spm. 11.VI.1987 – 1 spm. P.S. Sitnikov; Tyumen (forest nursery), 18.V.1980 – 1 spm. P.S. Sitnikov.

8. *Odontopera bidentata* (Clerck, 1759) – Korshunov, 1973a:145 (*Gonodontis*, Khanty-Mansi Autonomous Okrug-Yugra). **TO:** Ingair, 30.VI.1998 – 3 spm. P.S. Sitnikov; Tyumen, 14.VI.1981, 6.VI.1987 – 2 spm. P.S. Sitnikov.

9. *Crocallis elinguaria* (Linnaeus, 1758) – Bukhkalo et al., 2014:140 (Missia, Tobolsk). **KMAO:** Bolshetarkhovo, 1.VIII.1985 – 1 spm. P.S. Sitnikov. **TO:** Ingair, 25.VII.1990 – 1 spm. P.S. Sitnikov; Chernoe, 2.VIII.1999 – 2 spm. P.S. Sitnikov.

10. *Petrophora chlorosata* (Scopoli, 1763) – Bukhkalo et al., 2014:140 (Missia, Tobolsk). **TO:** Tyumen (E), 23.V.1991 – 1 spm. P.S. Sitnikov.

11. *Epirranthis diversata* (Denis et Schiffermüller, 1775) – Tschugunov, 1917:2 (*Ploseria pulverata*, Berezovo), 1925:70 (*P. pulverata*, Berezovo); (Shchuko, 1916:148 (*E. pulverata*, Bogandinskoe (station)); Korshunov, 1973b:183 (pulverata, Berezovo). **TO:** Abramova, 7.V.2020 – 2 spm. D.E. Galich; Krugloye, 9.V.1980 – 2 spm. P.S. Sitnikov; Lesozavodsky, 7.V.2020 – 1 spm. P.S. Sitnikov.

12. *Selenia dentaria* (Fabricius, 1775) – Korshunov, 1973a:145 (*bilunaria*, Khanty-Mansi Autonomous Okrug-Yugra); Sizov, 2001:66 (Tyumen Region); Red book of the Tyumen Region, 2004:150 (Tyumen, Oktyabrskoe); Sitnikov et al., 2013:128 (Tyumen, Kryukovskoe). **YNAO:** Korotchaevo, 14.VII.1999 – 2 spm. A.A. Sizov. **TO:** Ermak's garden, 24.VI.2007 – 1 spm. D.E. Galich.

13. *Selenia lunularia* (Hübner, [1788]) – Red book of the Tyumen Region, 2004:151 (Tyumen); Red book of the Tyumen Region, 2019 (Tyumen).

14. *Selenia tetralunaria* (Hufnagel, 1767) – Korshunov, 1973a:145 (Khanty-Mansi Autonomous Okrug-Yugra); Bukhkalo et al., 2014:140 (Tobolsk). **TO:** Abatsky, 10.VII.2001 – 1 spm. A.A. Sizov; Kultybaika, 7.VII.1995 – 1 spm. P.S. Sitnikov; Tyumen, 26.VII.1999 – 2 spm. A.A. Sizov; Chervishevo, 21, 26.VII.1987 – 4 spm. P.S. Sitnikov.

15. *Cepphis advenaria* (Hübner, [1799] 1796) – Red book of the Tyumen Region, 2004:154 (Andreevskoe, Rafailovo, Yarkovo); Sitnikov et al., 2013:128 (Andreevskoe, Rafailovo, Yarkovo). **TO:** Vagai, 21.VI.2002 – 2 spm. A.A. Sizov.

16. *Plagodis dolabraria* (Linnaeus, 1758) – Korshunov, 1973a:145 (*Eurymene*, Khanty-Mansi Autonomous Okrug-Yugra); Sizov, 2001:66 (Tyumen Region); Bukhkalo et al., 2014:140 (Missia, Tobolsk). **TO:** Andreevskoe, 18, 22.VI, 22.VII.1988, 23.V.1991 – 5 spm. P.S. Sitnikov, 9.VIII.1998 – 1 spm. A.A. Sizov; Ingair, 30.VI.1988 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov; Tyumen, 11.VI.1987 – 1 spm. P.S. Sitnikov.

17. *Plagodis pulveraria* (Linnaeus, 1758) – Korshunov, 1973b:183 (*Anagoga*, Berezovo). **YNAO:** Gubkinsky, 9.VII.1999 – 2 spm. A.A. Sizov; Muravlenko, 9.VII.1999 – 2 spm. A.A. Sizov. **KMAO:** Pokachil, 2.VII.1988 – 1 spm. A.V. Soromotin. **TO:** Andreevskoe, 13.VII.2002 – 1 spm. A.A. Sizov; Moshkarinsky, 21.VI.1997 – 1 spm. P.S. Sitnikov.

18. *Pseudopanthera macularia* (Linnaeus, 1758) – Shchuko, 1916:148 (*Venilia*, Karasulskaya); Bukhkalo et al., 2014:140 (Tobolsk). **TO:** Sinitsynsky bor, 10.VI.1997 – 2 spm. P.S. Sitnikov; Tyuleshov bor, 23.V.1997 – 2 spm. P.S. Sitnikov; Shashova, 17.VI.1997 – 1 spm. P.S. Sitnikov.

19. *Epione repandaria* (Hufnagel, 1767) – Shchuko, 1916:148 (*apiciaria*, Karasulskaya); Bukhkalo et al., 2014:139 (Ermak's garden). **KMAO:** Tayozhny, 9.VIII.1999 – 1 spm. A.A. Sizov. **TO:** Abramova, 12.IX.2019 – 2 spm. D.E. Galich; Andreevskoe, 30.VII.1988 – 1 spm. P.S. Sitnikov, 30.VII, 15.VIII.1999 – 2 spm. A.A. Sizov; Kuchak, 19.VIII.1999 – 1 spm. P.S. Sitnikov; Tyumen, 27.VIII.1986, 29.VII.1993 – 3 spm. P.S. Sitnikov; Chervishevo, 18.VIII.1981 – 1 spm. P.S. Sitnikov.

20. **Epione vespertaria* Linnaeus, 1767 – **KMAO:** Wah, 21.VIII.1987 – 1 spm. A.V. Soromotin; Tayozhny, 9.VIII.2002 – 1 spm. A.A. Sizov. **TO:** Andreevskoe, 23, 30.VII.1988 – 2 spm. P.S. Sitnikov, 30.VII.1999 – 1 spm. A.A. Sizov; Ingair, 22, 23.VII.1990 – 2 spm. P.S. Sitnikov; Kuchak, 15.VII.1998 – 1 spm. A.A. Sizov; Nadtsy, 23.VIII.1986 – 1 spm. P.S. Sitnikov; Tyumen, 30.VII.1987 – 1 spm. P.S. Sitnikov, 26.VII.1999 – 1 spm. A.A. Sizov; Chervishevo, 21, 26.VII.1987 – 2 spm. P.S. Sitnikov; Chernoe, 2.VIII.1999 – 1 spm. A.A. Sizov.

21. *Apeira syringaria* (Linnaeus, 1758) – Red book of the Tyumen Region, 2004:152 (Ingair); Galich, 2013:39 (Ermak's garden, Tobolsk); Bukhkalo et al., 2014 (Ermak's garden, Tobolsk); Stolbov et al., 2017:87 (Tobolsk); Red book of the Tyumen Region, 2019 (Tobolsk).

22. **Opisthograptis luteolata* (Linnaeus, 1758) – **TO:** Abramova, 11.VII.2015 – 1 spm. D.E. Galich; Vagai, 21.VI.2002 – 5 spm. A.A. Sizov; Tyumen, 23.VI.1980, 18.VI.1981, 11.VI.1987 – 3 spm. P.S. Sitnikov.

23. *Ennomos autumnaria* (Werneburg, 1859) – Shchuko, 1916:148 (Karasulskaya); Bukhkalo et al., 2014:140 (Tobolsk). **TO:** Andreevskoe, 7, 22.VIII.1988 – 4 spm. P.S. Sitnikov, 15.VIII.1999 – 3 spm. A.A. Sizov; Ivashkina, 15.VIII.1993 – 1 spm. P.S. Sitnikov; Istoshino, 13-14.VIII.2016 – 1 female, S.A. Knyazev; Kuchak, 19.VIII.1999 – 2 spm. P.S. Sitnikov; Tyumen, 9.VIII.1976, 20, 23.VIII.1980, 28.VIII.1986 – 5 spm. P.S. Sitnikov.

24. *Ourapteryx sambucaria* (Linnaeus, 1758) – Lomakin et al., 2001:362 (Tyumen); Tolstikov, 2004:30 (Kuchak, Razhevo); Red book of thr Tyumen Region, 2004:153 (Tyumen); Red book of the Tyumen Region, 2019 (Kuchak, Razhevo, Pesyanka, Tyumen); Tolstikov, Kuzmin, Stolbov, 2013:165 (Kuchak); Stolbov et al., 2017:87 (Andreevskoe, Pesyanka). **TO:** Abramova, 22.VII.2018 – 1 spm. D.E. Galich.

25. *Hylaea fasciaria* (Linnaeus, 1758) – Shchuko, 1916:148 (*Ellopia prosapiaria*, Karasulskaya); Tschugunov, 1914:448 (*prosapiaria*, Khanty-Mansi Autonomous Okrug-Yugra). **KMAO:** Wah, 21.VIII.1987 – 1 spm. A.V. Soromotin; Pasol, 11, 14.VII.1987 – 2 spm. A.V. Soromotin. **TO:** Andreevskoe, 23.VII.1988 – 1 spm. P.S. Sitnikov; Dubrovnoe, 4, 12.VII.1999 – 2 spm. P.S. Sitnikov; Kuchak, 30.VI, 1, 3.VII.1998, 15,18.VII.1998 – 3 spm. A.A. Sizov; Motushi, 4, 9.VII.1998 – 4 spm. P.S. Sitnikov.

26. *Perconia strigillaria* (Hübner, 1787) – Tschugunov, 1914:448 (*Acidalia*, Khanty-Mansi Autonomous Okrug-Yugra).

27. **Charissa ambiguata* (Duponchel, 1830) – **TO:** Andreevskoe, 9.VII.1988 – 1 spm. P.S. Sitnikov, 25.VII.2000 – 1 spm. A.A. Sizov; Dubrovnoe, 2.VII.1999 – 1 spm. P.S. Sitnikov; Kuchak, 11.VII.1998 – 1 spm. A.A. Sizov.

28. **Glacies coracina* (Esper, 1805) – **YNAO:** Krasnyi Kamen`, 1-13.VII.2017 – 8 spm. V.O. Zurilina.

29. *Angerona prunaria* (Linnaeus, 1758) – Fridolin, 1936:253 (Berezovo); Mershalova, Polushkina, 1967:138 (Tyumen); Korshunov, 1973b:183 (Sokolovka, Tobolsk); NP Kondinsky Lakes, 2012:235 (Khanty-Mansi Autonomous Okrug-Yugra); Bukhkalo et al., 2014:141 (Tobolsk); Strelnikova, Moseevsky, 2018:44 (Yugansky reserve, Khanty-Mansi Autonomous Okrug-Yugra). **YNAO:** Ratta, 19.VII.1989 – 1 spm. P.S. Sitnikov; Tolka, 14.VII.1989 – 1 spm. P.S. Sitnikov. **KMAO:** Pasol, 11.VII.1987 – 1 spm. A.V. Soromotin. **TO:** Andreevskoe, 4, 18, 22.VI.1988 – 4 spm. P.S. Sitnikov; Vagai, 21.VI.2002 – 1 spm. A.A. Sizov; Vedenyatskoe, 12.VI.1989 – 2 spm. P.S. Sitnikov; Vlasovo, 15.VI.1990 – 5 spm. P.S. Sitnikov; Ingair, 30.VI.1988, 15.VI.1991 – 2 spm. P.S. Sitnikov; Kuchak, 26, 27, 30.VI, 13.VII.1998 – 6 spm. A.A. Sizov; Mazurovo, 10.VII, 30.VI.1980 – 3 spm. P.S. Sitnikov; Motushi, 4, 7.VII.1998 – 2 spm. P.S. Sitnikov; Nadtsy, 21.VI.1985 – 1 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov; Sladkovo, 14.VI.1990 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 10.VI.1989 – 2 spm. P.S. Sitnikov; Travnoe, 20.VI.1990 – 1 spm.

P.S. Sitnikov; Tyumen, 3, 23.VI.1980, 16, 18, 20.VI.1981, 11.VI.1987, 21.VI.1993 – 8 spm. P.S. Sitnikov; Chervishevo, 3.VII.1982 – 1 spm. P.S. Sitnikov; Shapkul, 4.VII.1997 – 1 spm. P.S. Sitnikov; Shashova, 10.VI.2020 – 4 spm. D.E. Galich; Yalutorovsk, 16.VI.1997 – 2 spm. P.S. Sitnikov.

30. *Hypoxystis pluviaria* (Fabricius, 1787) – Shchuko, 1916:148 (*Hypoplectis adspersaria*, Karasulskaya). **TO:** Abramova, 11.V.2020 – 1 spm. D.E. Galich; Andreevskoe, 9, 19, 21. V.1988, 17.V.1993 – 4 spm. P.S. Sitnikov, 27.V.1999 – 3 spm. A.A. Sizov; Vlasovo, 8.V.1997 – 1 spm. P.S. Sitnikov; Ermak's garden, 23.V.2006 – 2 spm. D.E. Galich; Tavolzhan, 10.V.1997 – 1 spm. P.S. Sitnikov; Tavolzhan (Island), 10.V.1997 – 1 spm. P.S. Sitnikov; Tyumen, 26.V.1987 – 1 spm. P.S. Sitnikov; Tyumen (E), 15.V.1991 – 1 spm. P.S. Sitnikov; Yushkova, 24.V.1997 – 1 spm. P.S. Sitnikov.

31. **Synopsia sociaria* (Hübner, [1799] 1796) – **TO:** Andreevskoe, 11, 13, 18, 22, 23.VI.1988, 13.VIII.1989 – 8 spm. P.S. Sitnikov.

32. *Megaspilates mundataria* (Stoll, 1782) – Lomakin et al., 2001:363 (*Aspilates*, Tyumen Region); Red book of the Tyumen Region, 2004:155 (Siverga, Kushluk, Tavolzhan (lake); Sitnikov et al., 2013:129 (Siverga, Kushluk, Tavolzhan (lake), Kalmakskoe).

33. *Aspitates* (*Napuca*) *taylorae* (Butler, 1893) – Lomakin et al., 2001:362 (*Semiaspilates*, Tolka, Ratta); Red book of the Tyumen Region, 2004:149 (*Semiaspilates*, Krasnoselkup, Tolka); Sitnikov et al., 2013:128 (Krasnoselkup, Tolka). **YNAO:** Krasnyi Kamen`, 28.VI.2017 – 1 male, 1 female, V.O. Zurilina.

34. *Aspitates* (*Napuca*) *forbesi* (Munroe, 1963) – Skou, Sihvonen 2015: 415, 500 (Krasnyi Kamen`); **YNAO:** Krasnyi Kamen`, 28.VI.2017 – 2 males, V.O. Zurilina.

35. *Aspitates* (*Napuca*) *orciferaria* Walker, 1863 – Skou, Sihvonen 2015: 414, 500 (Krasnyi Kamen`).

36. *Siona lineata* (Scopoli, 1763) – Shchuko, 1916:149 (*Scoria*, Yalutorovsk (station)); Korshunov, 1973b:184 (*Scoria*, Sokolovka, Tobolsk); Bukhkalo et al., 2014:141 (Tobolsk). **TO:** Abramova, 22.VI.2015 – 2 spm. D.E. Galich; Andreevskoe, 12.VI.1988 – 1 spm. P.S. Sitnikov; Vagai, 21.VI.2002 – 1 spm. A.A. Sizov; Vlasovo, 15.VI.1990 – 1 spm. P.S. Sitnikov; Gulyai-Pole, 23.VI.1990 – 1 spm. P.S. Sitnikov; Dubrovnoe, 3.VII.1999 – 1 spm. P.S. Sitnikov; Ingair, 30.VI.1988 – 1 spm. P.S. Sitnikov; Kuchak, 27.VI.1998, 27.VI.1999 – 2 spm. A.A. Sizov; Mazurovo, 29.VI.1979, 21.VI.1986, 26.VI.1988 – 3 spm. P.S. Sitnikov; Maslyansky, 13.VI.1990 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 12.VI.1989 – 1 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov; Sladkovo, 18.VI.1990 – 1 spm. P.S. Sitnikov; Tyumen (NW), 8.VII.1988 – 1 spm. P.S. Sitnikov; Shashova, 17.VI.1997 – 2 spm. P.S. Sitnikov, 10.VI.2020 – 3 spm. D.E. Galich; Yalutorovsk, 16.VI.1996 – 1 spm. P.S. Sitnikov.

37. *Cleora cinctaria* ([Denis et Schiffermüller], 1775) – Shchuko, 1916:149 (*Boarmia*, Golyshmanovo). **TO:** Abramova, 11.V.2020 – 1 spm. D.E. Galich; Andreevskoe, 21.V, 18.VI.1988, 29.VI.1991 – 4 spm. P.S. Sitnikov, 18.V.1998 – 1 spm. V.V. Sinitsin; Lesozavodsky, 5, 7.V.2019 – 2 spm. P.S. Sitnikov; Missia, 7.VI.2006 – 2

spm. D.E. Galich; Tyumen, 6, 28.V, 10, 17.VI.1981, 26.V.1987, 3, 7.V.1988 – 10 spm. P.S. Sitnikov.

38. **Ascotis selenaria* ([Denis et Schiffermüller], 1775) – **TO:** Maryino gorge, 19.VII.2019 – 1 spm. D.E. Galich.

39. *Ectropis crepuscularia* ([Denis et Schiffermüller], 1775) Shchuko, 1916:149 (*Boarmia*, Golyshmanovo). **TO:** Andreevskoe, 18.V, 2.VI.1998 – 2 spm. V.V. Sinitsin; Ermak's garden, 13.VII.2006 – 1 spm. D.E. Galich; Tyumen, 1.VI.1981 – 1 spm. P.S. Sitnikov; Uspenka, 19.VI.1998 – 1 spm. P.S. Sitnikov; Chervishevo, 18.VII.1981 – 1 spm. P.S. Sitnikov.

40. **Parectropis similaria* (Hufnagel, 1767) – **TO:** Dubrovnoe, 3, 8.VII.1999 – 2 spm. P.S. Sitnikov; Lukashinskoe, 28.VI.1987 – 1 spm. P.S. Sitnikov; Tyumen (E), 29.V.1991 – 1 spm. P.S. Sitnikov.

41. *Aethalura punctulata* ([Denis et Schiffermüller], 1775) – Shchuko, 1916:149 (*Boarmia punctularia*, Golyshmanovo). **KMAO:** Khanty-Mansiysk, 9.VI.1992 – 1 spm. P.S. Sitnikov. **TO:** Abramova, 11.V.2020 – 1 spm. D.E. Galich; Andreevskoe, 24.V.1987, 21.V, 4, 18.VI.1988 – 4 spm. P.S. Sitnikov; Tyumen, 31.V.1981 – 1 spm. P.S. Sitnikov; Tyumen (E), 17.V.1991 – 1 spm. P.S. Sitnikov; Tyumen (forest nursery), 18.V.1980 – 1 spm. P.S. Sitnikov.

42. *Arichanna melanaria* (Linnaeus, 1758) – Fridolin, 1936:253 (Berezovo); Korshunov, 1973b:183 (Tobolsk); Bukhkalo et al., 2014:141 (Tobolsk); Strelnikova, Moseevsky, 2018:44 (Khanty-Mansi Autonomous Okrug-Yugra). **KMAO:** Bolshetarkhovo, 1, 2.VIII.1985 – 2 spm. P.S. Sitnikov; Malinovsky, 8.VIII.2002 – 2 spm. A.A. Sizov; Pasol, 14.VII.1987 – 2 spm. A.V. Soromotin; Tayozhny, 11.VIII.2002 – 1 spm. A.A. Sizov. **TO:** Abramova, 14.VII.2020 – 1 spm. D.E. Galich; Kultybaika, 22.VII.1993, 7.VII.1995, 7, 11.VII.1997 – 4 spm. P.S. Sitnikov; Kuchak, 11.VII.1998 – 1 spm. A.A. Sizov; Mazurovo, 18.VII.1980 – 1 spm. P.S. Sitnikov; Sannikovo, 4.VIII.1999 – 1 spm. A.A. Sizov; Chervishevo, 3.VIII.1981 – 1 spm. P.S. Sitnikov.

43. *Bupalus piniaria* (Linnaeus, 1758) – Tschugunov, 1914:448 (Khanty-Mansi Autonomous Okrug-Yugra); Shchuko, 1916:149 (Yalutorovsk (station); Sizov, 2001:64 (Tyumen Region), 2003:147 (Tyumen Region); Bukhkalo et al., 2014:141 (*piniarius*, Tobolsk). **KMAO:** Pokachil, 2.VII.1988 – 1 spm. A.V. Soromotin. **TO:** Abramova, 7.V.2019 – 1 spm. D.E. Galich; Andreevskoe, 4, 18, 22.VI.1988, 23.V.1991 –7 spm. P.S. Sitnikov; Vagai, 21.VI.2002 – 1 spm. A.A. Sizov; Vlasovo, 15.VI.1990 – 5 spm. P.S. Sitnikov; Kuchak, 26, 27.VI.1999 – 2 spm. A.A. Sizov; Mazurovo, 21.VI.1986 – 2 spm. P.S. Sitnikov; Staraya Shadrina, 10.VI.1989 – 1 spm. P.S. Sitnikov; Tyumen, 11.VI.1987 – 3 spm. P.S. Sitnikov.

44. *Biston betularius* (Linnaeus, 1758) – Shchuko, 1916:149 (*Amphidasis*, Omutinskoe (station)); Korshunov, 1973b:184 (*Amphidasis*, Tobolsk); Mershalova, Polushkina, 1967:138 (Tyumen Region); Sizov, 2001:64 (Tyumen Region), 2003:147 (Tyumen Region); Bukhkalo et al., 2014:142 (Missia, Tobolsk). **TO:** Abramova, 11.VI.2016 – 5 spm. D.E. Galich; Andreevskoe, 9, 18.VII.1988, 23, 29.V.1991 – 5 spm. P.S. Sitnikov, 13.VII.2002 – 1 spm. A.A. Sizov; Vedenyatskoe, 12.VI.1989 – 3 spm. P.S. Sitnikov; Vlasovo, 15.VI.1990 – 1 spm. P.S. Sitnikov; Ingair, 25.VII.1990 –

1 spm. P.S. Sitnikov; Kuchak, 3.VII.1998 – 1 spm. A.A. Sizov; Mazurovo, 27.VI.1988 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 2 spm. P.S. Sitnikov; Tyumen, 11, 14, 16.VI.1981, 3.VI, 9.VII.1988 – 9 spm. P.S. Sitnikov.

45. *Biston strataria* (Hufnagel, 1767) – Bukhkalo et al., 2014:142 (Tobolsk, (steppe slope)).

46. *Lycia hirtaria* (Clerck, 1759) – Korshunov, 1973a:145 (*Biston*, Khanty-Mansi Autonomous Okrug-Yugra); (Bukhkalo et al., 2014:142 (Missia, Tobolsk). **TO:** Abramova, 7.V.2019 – 2 spm. D.E. Galich; Lesozavodsky, 5.V.2020 – 1 spm. P.S. Sitnikov; Mazurovo, 8.V.1981 – 1 spm. P.S. Sitnikov; Maryino gorge, 19.VII.2019 – 2 spm. D.E. Galich; Reshetnikova, 3.V.1999 – 1 spm. V.V. Sinitsin; Tyumen, 6.V.1981, 24. IV.1983, 10, 12.V.1987, 11.VI.1987 – 5 spm. P.S. Sitnikov; Tyumen (E), 29.V.1991 – 1 spm. P.S. Sitnikov, 3.V.1999 – 1 spm. V.V. Sinitsin.

47. **Lycia pomonaria* (Hübner, 1790) – **TO:** Lesozavodsky, 12.V.2020 – 1 spm. V.V. Sinitsin.

48. *Lycia zonaria* ([Denis et Schiffermüller], 1775) – Shchuko, 1916:149 (*Biston*, Karasulskaya).

49. *Hypomecis roboraria* ([Denis et Schiffermüller], 1775) – Korshunov, 1973b:184 (*Boarmia*, Sokolovka); Bukhkalo et al., 2014:141 (Tobolsk). **TO:** Andreevskoe, 18, 22, 23. VI.1988 – 8 spm. P.S. Sitnikov; Vlasovo, 15.VI.1990 – 1 spm. P.S. Sitnikov; Dubrovnoe, 2, 4, 5.VII.1999 – 3 spm. P.S. Sitnikov; Ingair, 30.VI.1988, 22.VII.1990, 15.VI.1991 – 3 spm. P.S. Sitnikov; Kultybaika, 3, 10, 11.VII.1997 – 3 spm. P.S. Sitnikov; Kuchak, 25, 30.VI, 3.VII.1998 – 12 spm. A.A. Sizov; Mazurovo, 5.VII.1980, 26.VI.1988 – 2 spm. P.S. Sitnikov; Missia, 9.VI.2009 – 1 spm. Motushi, 1, 4.VII.1998 – 2 spm. P.S. Sitnikov; Nadtsy, 30.VI.1994 – 1 spm. P.S. Sitnikov; Ermak's garden, 13.VII.2006 – 1 spm. D.E. Galich; Shashova, 10.VI.2020 – 3 spm. D.E. Galich.

50. **Hypomecis punctinalis* (Scopoli, 1763) – **TO:** Andreevskoe, 18, 22.VI.1988 – 2 spm. P.S. Sitnikov; Vedenyatskoe, 12.VI.1989 – 2 spm. P.S. Sitnikov; Vlasovo, 15.VI.1990 – 1 spm. P.S. Sitnikov; Kuchak, 11.VII.1998, 26, 27.VI.1999 – 3 spm. A.A. Sizov; Missia, 10.VII.2006 – 1 spm. D.E. Galich; Onokhino, 10.VI.1996 – 2 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11, 12.VI.1989 – 3 spm. P.S. Sitnikov; Tavolzhan (Island), 26.VII.1996 – 1 spm. P.S. Sitnikov; Tyumen, 24, 29.VI.1980, 11.VI.1987 – 4 spm. P.S. Sitnikov; Tyumen (E), 23, 29.V.1991 – 4 spm. P.S. Sitnikov.

51. *Ematurga atomaria* (Linnaeus, 1758) – Shchuko, 1916:149 (Yalutorovsk (station); Tschugunov, 1917:11 (*Hematurga*, Berezovo); 1925:70 (*Hematurga*, Berezovo); (Mershalova, Polushkina, 1967:138 (*Acidalia immorata*, Tyumen); Korshunov, 1973b:184 (Tobolsk, Sokolovka, Berezovo); Olshvang, 1992:46 (river floodplain Khadytayakhi); Bukhkalo et al., 2014:141 (*E. atomaria zetterstedtaria*, Tobolsk). **YNAO:** Krasnoselkup, 7, 11.VII.1989, 24.VI.1994 – 7 spm. P.S. Sitnikov; Muravlenko, 9.VII.1999 – 2 spm. A.A. Sizov; Tolka, 14.VII.1989 – 2 spm. P.S. Sitnikov. **KMAO:** Pripolyarnyi, 30.VI.1993 – 1 spm. P.S. Sitnikov. **TO:** Andreevskoe, 19, 24.V.1987, 22.V.1988 – 3 spm. P.S. Sitnikov; Vlasovo, 12.V.1997 – 1 spm. P.S.

Sitnikov; Volgina, 22.V.1997 – 1 spm. P.S. Sitnikov; Ishim, 30.VI.1988 – 1 spm. P.S. Sitnikov; Ishim, 10.VII.2001 – 6 spm. A.A. Sizov; Kultybaika, 11.VII.1996 – 1 spm. P.S. Sitnikov; Kuchak, 26.VI.1999 – 1 spm. A.A. Sizov; Lipovoe, 14.VI.1992 – 1 spm. P.S. Sitnikov; Mazurovo, 4.VII.1979, 26.VIII.1980, 21.VI.1986 – 3 spm. P.S. Sitnikov; Novoatyalovo, 26.VI.1996 – 1 spm. P.S. Sitnikov; Onokhino, 10.VI.1996 – 1 spm. P.S. Sitnikov; Ermak's garden, 24.VI.2007 – 1 spm. D.E. Galich; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov; Sladkovo, 14.VI.1990 – 1 spm. P.S. Sitnikov; Stanichnoye, 17.VI.1990 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 2 spm. P.S. Sitnikov; Travnoe, 20.VI.1990 – 1 spm. P.S. Sitnikov; Tyumen, 11.VI.1987 – 1 spm. P.S. Sitnikov; Tyumen (E), 17.V, 15.VI.1991 – 2 spm. P.S. Sitnikov; Tyumen (forest nursery), 18, 26.V.1980 – 4 spm. P.S. Sitnikov; Yushkova, 24.V.1997 – 2 spm. P.S. Sitnikov.

52. **Deileptenia ribeata* (Clerck, 1759) – **TO:** Ingair, 16.VI.1991 – 1 spm. P.S. Sitnikov.

53. *Alcis deversata* (Staudinger, 1892) – Bukhkalo et al., 2014:141 (*bastelbergeri*, Tobolsk). **TO:** Ingair, 22, 23, 25, 28.VII.1990 – 6 spm. P.S. Sitnikov; Skiing lodge, 11.VI.2006 – 1 spm. D.E. Galich.

54. *Alcis jubata* (Thunberg, 1788) – Bukhkalo et al., 2014:141 (Tobolsk).

55. *Alcis repandata* (Linnaeus, 1761) – Sizov, 2001:66 (Tyumen Region); Bukhkalo et al., 2014:141 (Missia, Tobolsk). **TO:** Lukashinskoe, 28.VI.1987 – 1 spm. P.S. Sitnikov.

56. *Abraxas grossulariata* (Linnaeus, 1758) – Korshunov, 1973b:183 (Sokolovka, Tobolsk); Sizov, 2001:63, 2003:146 (Tyumen Region); Mershalova, Polushkina, 1967:138 (Knyazhevo); Bukhkalo et al., 2014:139-140 (Tobolsk). **TO:** Maryino gorge, 19.VII.2019 – 1 spm. D.E. Galich; Sladkovo, 28.VI.1990 – 2 spm. P.S. Sitnikov; Tyumen, 19.VII.1982 – 1 spm. P.S. Sitnikov.

57. *Abraxas sylvata* (Scopoli, 1763) – Korshunov, 1973b:183 (Tobolsk); Bukhkalo et al., 2014:140 (Abalak, Missia). **TO:** Andreevskoe, 9.VIII.1998 – 1 spm. A.A. Sizov; Mazurovo, 2.VII.1980 – 1 spm. P.S. Sitnikov; Maryino gorge, 19.VII.2019 – 1 spm. D.E. Galich; Tyumen, 18.VI.1981 – 1 spm. P.S. Sitnikov; Tyumen (N), 23.VI.1988 – 1 spm. P.S. Sitnikov.

58. *Lomaspilis marginata* (Linnaeus, 1758) – Tschugunov, 1914:448 (*Abrax*, Khanty-Mansi Autonomous Okrug-Yugra); Shchuko, 1916:148 (*Abrax*, Karasulskaya); Korshunov, 1973b: (*Abrax*, Tobolsk); Mershalova, Polushkina, 1967:138 (Tyumen); Bukhkalo et al., 2014:140 (Missia, Tobolsk). **YNAO:** Ratta, 17.VII.1989 – 1 spm. P.S. Sitnikov. **KMAO:** Pripolyarnyi, 29.VI.1993 – 1 spm. P.S. Sitnikov. **TO:** Andreevskoe, 22, 23.VI.1988 – 2 spm. P.S. Sitnikov; Vlasovo, 15.VI.1990 – 1 spm. P.S. Sitnikov; Dubrovnoe, 12.VII.1999 – 1 spm. P.S. Sitnikov; Ingair, 30.VI.1988, 23.VII.1990 – 2 spm. P.S. Sitnikov; Kuchak, 29, 30.VI, 1, 3.VII.1998, 26.VI.1999 – 6 spm. A.A. Sizov; Lipovoe, 14.VI.1992 – 1 spm. P.S. Sitnikov; Mazurovo, 8.VII.1981, 26.VI.1988 – 2 spm. P.S. Sitnikov; Motushi, 4, 6.VII.1998 – 2 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov; Tyumen, 18.VI.1981, 26.V, 29.VI, 3.VII.1987, 3.VI.1988 – 6 spm.

P.S. Sitnikov; Tyumen (forest nursery), 6.VI.1980 – 1 spm. P.S. Sitnikov; Chernoe, 2.VIII.1999 – 1 spm. A.A. Sizov.

59. *Lomaspilis opis* Butler, 1878 – Bukhkalo et al., 2014:140 (*opis nigrita*, Missia). **TO:** Dubrovnoe, 8.VII.1999 – 1 spm. P.S. Sitnikov; Kuchak, 27.VI.1999 – 2 spm. A.A. Sizov; Motushi, 4.VII.1998 – 1 spm. P.S. Sitnikov; Tyumen, 3.VI.1988 – 1 spm. P.S. Sitnikov.

60. *Heliomata glarearia* ([Denis et Schiffermüller], 1775) – Lomakin et al., 2001:362 (*Semiothisa*, Tyuleshov bor, Shashova); Red book of the Tyumen Region, 2004:147 (Tyuleshov bor, Shashova); Sitnikov et al., 2013:128 (Tyuleshov bor, Shashova).

61. **Isturgia arenacearia* ([Denis et Schiffermüller], 1775) – **TO:** Sinitsynsky bor, 10.VI.1997 – 2 spm. P.S. Sitnikov.

62. *Isturgia murinaria* ([Denis et Schiffermüller], 1775) – Shchuko, 1916:149 (*Eubolia*, Yalutorovsk (station); Mershalova, Polushkina 1967:138 (*Tephrina*, Tyumen, Ishim, Kazanskoe). **TO:** Sladkovo, 20.VII.1996 – 1 spm. P.S. Sitnikov.

63. *Narraga fasciolaria* (Hufnagel, 1767) – Shchuko, 1916:149 (*Fidonia*, Golyshmanovo); Red book of the Tyumen Region, 2004:148 (Golyshmanovo, Tavolzhan, Kushluk); Sitnikov et al., 2013). **TO:** Andreevskoe, 25.VI.2000 – 2 spm. A.A. Sizov.

64. *Macaria alternata* (Denis et Schiffermüller, 1775) – Shchuko, 1916:148 (*Semiothisa alternaria*, Karasulskaya); Bukhkalo et al., 2014:141 (Tobolsk). **YNAO:** Krasnoselkup, 7, 8, 10, 11.VII.1989 – 5 spm. P.S. Sitnikov. **TO:** Andreevskoe, 18, 22, 23.VI, 23.VII.1988 – 4 spm. P.S. Sitnikov, 9.VIII.1998 – 1 spm. A.A. Sizov; Vagai, 21.VI.2002 – 1 spm. A.A. Sizov; Ingair, 30.VI.1988 – 1 spm. P.S. Sitnikov; Kuchak, 18.VII.1998 – 1 spm. A.A. Sizov; Peña, 1.VII.1994 – 1 spm. P.S. Sitnikov; Ermak's garden, 21.VI.2005 – 1 spm. D.E. Galich; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 2 spm. P.S. Sitnikov; Tyumen, 14.VI.1981, 11.VI.1987 – 2 spm. P.S. Sitnikov.

65. *Macaria liturata* (Clerck, 1759) – Tschugunov, 1914:448 (*Semiothisa*, Khanty-Mansi Autonomous Okrug-Yugra); Shchuko, 1916:148-149 (*Semiothisa*, Karasulskaya); Korshunov, 1973b:183 (Durynina); Bukhkalo et al., 2014:141 (Missia, Tobolsk). **YNAO:** Ratta, 24.VII.1989 – 1 spm. P.S. Sitnikov. **KMAO:** Pokachil, 2.VII.1988 – 1 spm. A.V. Soromotin. **TO:** Andreevskoe, 18, 23.VI.1988, 29.V.1991 – 4 spm. P.S. Sitnikov; Vedenyatskoe, 12.VI.1989 – 1 spm. P.S. Sitnikov; Dubrovnoe, 5.VII.1998, 4.VII.1999 – 3 spm. P.S. Sitnikov; Ingair, 30.VI.1988, 23.VII.1990 – 2 spm. P.S. Sitnikov; Kultybaika, 9.VII.1994, 3.VII.1995, 11.VII.1996 – 3 spm. P.S. Sitnikov; Kuchak, 1, 3, 10, 18.VII.1998 – 5 spm. A.A. Sizov; Mazurovo, 27.VI.1980, 21.VI.1986 – 2 spm. P.S. Sitnikov; Motushi, 1, 6.VII.1998 – 2 spm. P.S. Sitnikov; Staraya Shadrina, 9.VI.1989 – 1 spm. P.S. Sitnikov; Tyumen, 16.VI.1981 – 1 spm. P.S. Sitnikov, 26.VII.1999 – 1 spm. A.A. Sizov.

66. *Macaria notata* (Linnaeus, 1758) – Tschugunov, 1914:448 (*Semiothisa*, Khanty-Mansi Autonomous Okrug-Yugra); Bukhkalo et al., 2014:140-141 (Missia, Tobolsk). **YNAO:** Ratta, 24.VII.1989 – 1 spm. P.S. Sitnikov. **TO:** Andreevskoe, 18.VI.1988 – 1 spm. P.S. Sitnikov, 9.VIII.1998 – 2 spm. A.A. Sizov; Vlasovo,

15.VI.1990 – 1 spm. P.S. Sitnikov; Dubrovnoe, 3.VII.1999 – 1 spm. P.S. Sitnikov; Ingair, 30.VI.1988, 22.VII.1990 – 2 spm. P.S. Sitnikov; Kuchak, 30.VI, 1, 3, 18.VII.1998, 26.VI.1999 – 6 spm. A.A. Sizov; Mazurovo, 29.VI.1980, 26.VI.1988, 21.VI.1986 – 3 spm. P.S. Sitnikov; Motushi, 29.VI.1998 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov; Tyumen, 18.VI.1981, 11.VI, 30.VII.1987, 19.VI.1998 – 4 spm. P.S. Sitnikov, 12.VI.1999 – 1 spm. A.A. Sizov; Uspenka, 19.VI.1998 – 1 spm. P.S. Sitnikov; Shashova, 10.VI.2020 – 1 spm. D.E. Galich.

67. *Macaria signaria* (Hübner, 1809) – Tschugunov, 1914:448 (*Semiothisa*, Khanty-Mansi Autonomous Okrug-Yugra); Korshunov, 1973b:183 (Durynina). **YNAO:** Ratta, 19.VII.1989 – 1 spm. P.S. Sitnikov. **TO:** Ingair, 30.VI.1988, 27.VI.1994 – 2 spm. P.S. Sitnikov.

68. **Macaria artesiaria* ([Denis et Schiffermüller], 1775) – **TO:** Abatsky, 10.VII.2001 – 1 spm. A.A. Sizov; Ingair, 22.VII.1990 – 1 spm. P.S. Sitnikov; Kuchak, 13.VII.1998 – 1 spm. A.A. Sizov; Tyumen, 30.VII.1987 – 1 spm. P.S. Sitnikov, 27.VII.1989 – 1 spm. P.S. Sitnikov.

69. *Macaria brunneata* (Thunberg, 1784) – Tschugunov, 1914:448 (*Thamnonoma*, Khanty-Mansi Autonomous Okrug-Yugra) 1917:11 (*Thamnonoma*, Berezovo); 1925:70 (*Thamnonoma*, Berezovo). **YNAO:** Aksarka, 26.VIII.1999 – 2 spm. A.A. Sizov; Krasnyi Kamen`, 17.VII.2012 – 1 male, S.A. Knyazev; Krasnoselkup, 7, 10.VII.1989 – 2 spm. P.S. Sitnikov; Muzhi, 6.VII.1991 – 1 spm. P.S. Sitnikov; Ratta, 24, 26.VII.1989 – 2 spm. P.S. Sitnikov. KMAO: Pasol, 14.VII.1987 – 2 spm. A.V. Soromotin. **TO:** Andreevskoe, 9.VII.1988 – 1 spm. P.S. Sitnikov; Kultybaika, 7.VII.1995, 11.VII.1996 – 2 spm. P.S. Sitnikov; Kuchak, 1, 3.VII.1998 – 9 spm. A.A. Sizov; Motushi, 29.VI, 6.VII.1998 – 2 spm. P.S. Sitnikov.

70. *Macaria fusca* (Thunberg, 1792) – Tschugunov, 1917:18 (*Pygmaena*, Obdorsk (currently Salekhard), 1925:70 (*P. fusca ab. destrigata*, Obdorsk (currently Salekhard); Olshvang 1992:46 (*Pygmaena*, river floodplain Khadytayakhi). **YNAO:** Krasnyi Kamen`, 11-16.VII.2012 – 7 males, 2 females, S.A. Knyazev.

71. **Macaria loricaria* (Eversmann, 1837) – **YNAO:** Labytnangi, 9-10.VII.2012 – 2 males, S.A. Knyazev; Ratta, 30.VII.1987 – 1 spm. P.S. Sitnikov.

72. *Macaria wauaria* (Linnaeus, 1758) – Tschugunov, 1925:70 (*Thamnonoma*, Kondinskoe); Bukhkalo et al., 2014:141 (Tobolsk). **TO:** Abatsky, 10.VII.2001 – 1 spm. A.A. Sizov; Andreevskoe, 13.VII.2002 – 1 spm. A.A. Sizov; Big Krasnoyar, 18, 19.VII.2001 – 2 spm. A.A. Sizov; Kultybaika, 3.VII.1997 – 1 spm. P.S. Sitnikov; Kuchak, 3, 8, 10, 18.VII.1998 – 5 spm. A.A. Sizov; Tavolzhan, 25.VII.1996 – 1 spm. P.S. Sitnikov; Tyumen, 10.VI.1977 – 1 spm. P.S. Sitnikov; Chervishevo, 21.VII.1987 – 1 spm. P.S. Sitnikov.

73. *Chiasmia clathrata* (Linnaeus, 1758) – Shchuko, 1916:149 (*Phasiane*, Yalutorovsk (station); Mershalova, Polushkina, 1967:138 (Tyumen Region); Korshunov, 1973b:184 (Tobolsk); Bukhkalo et al., 2014:141 (Tobolsk). **KMAO:** Pripolyarnyi, 30.VI.1993 – 1 spm. P.S. Sitnikov. **TO:** Andreevskoe, 23.V.1991 – 1 spm. P.S. Sitnikov; Velizhany, 16.VI.1998 – 1 spm. P.S. Sitnikov; Vlasovo, 15.VI.1990 – 1 spm. P.S. Sitnikov; Dubrovnoe, 3.VII.1999 – 1 spm. P.S. Sitnikov; Ingair, 30.VI.1988,

23.VII.1990, 15.VI.1991, 27.VI.1994 – 4 spm. P.S. Sitnikov; Kultybaika, 7.VII.1995 – 1 spm. P.S. Sitnikov; Kuchak, 27.VI, 1, 3, 10, 11, 15, 18.VII.1998 – 7 spm. A.A. Sizov; Motushi, 4.VII.1998 – 2 spm. P.S. Sitnikov; Moshkarinsky, 24.VI.1996 – 1 spm. P.S. Sitnikov; Ostropyatovo, 27.VI.1990 – 1 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 2 spm. P.S. Sitnikov; Sladkovo, 20.VII.1996 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov; Tyuleshov bor, 23.V.1997 – 2 spm. P.S. Sitnikov; Tyumen, 18.V.1981, 11, 30.VII.1987 – 3 spm. P.S. Sitnikov; Tyumen (E), 15.VI.1991 – 1 spm. P.S. Sitnikov; Tyumen (forest nursery), 26, 30.V.1980 – 2 spm. P.S. Sitnikov; Chernoe, 2.VIII.1999 – 1 spm. A.A. Sizov; Yushkova, 24.V.1997 – 1 spm. P.S. Sitnikov.

Geometrinae

74. *Pseudoterpna pruinata* (Hufnagel, 1767) – Sitnikov et al., 2004:281 (Tyumen); Red book of the Tyumen Region, 2004 (annex):463.

75. *Geometra papilionaria* (Linnaeus, 1758) – Shchuko, 1916:148 (Tyumen); Tschugunov 1917:11 (Berezovo), 1925:70 (Berezovo); Mershalova, Polushkina, 1967:138 (*Hipparchus*, Tyumen); Korshunov, 1973a:145 (Khanty-Mansi Autonomous Okrug-Yugra), 1973b:182 (vicinity Tobolsk); Bukhkalo et al., 2014:139 (Tobolsk). **KMAO:** Tayozhny, 10.VIII.2002 – 1 spm. A.A. Sizov. **TO:** Andreevskoe, 28.VI.1988, 9, 23.VII.1988 – 3 spm. P.S. Sitnikov; Dubrovnoe, 5.VII.1998, 3.VII.1999 – 2 spm. P.S. Sitnikov; Kultybaika, 7.VII.1995 – 1 spm., P.S. Sitnikov; Ingair, 30.VI.1988, 23.VII.1990, 15.VI.1991 – 3 spm., P.S. Sitnikov; Kuchak, 26, 27.VI, 18.VII.1998 – 3 spm. A.A. Sizov; Mazurovo, 10.VII.1982 – 1 spm. P.S. Sitnikov; Motushi, 1, 4.VII.1998 – 1 spm. P.S. Sitnikov; Nadtsy, 29.VI.1994 – 1 spm. P.S. Sitnikov; Peña, 1.VII.1994 – 1 spm. P.S. Sitnikov; Sladkovo, 28.VI.1990 – 1 spm. P.S. Sitnikov; Tyumen, 3.VII.1987 – 1 spm. P.S. Sitnikov; Chervishevo, 21.VII.1987 – 2 spm. P.S. Sitnikov.

76. *Thetidia smaragdaria* (Fabricius, 1787) – Bukhkalo et al., 2014:139 (Tobolsk). **TO:** Andreevskoe, 18, 22.VI, 22.VIII.1988 – 3 spm. P.S. Sitnikov, 24.VIII.1998, 13.VII.2002 – 3 spm. A.A. Sizov; Ingair, 15.VI.1991 – 1 spm. P.S. Sitnikov; Maryino gorge, 19.VII.2019 – 2 spm. D.E. Galich; Sladkovo, 28.VI.1990 – 2 spm. P.S. Sitnikov; Shashova, 10.VI.2020 – 1 spm. D.E. Galich.

77. **Hemistola chrysoprasaria* (Esper, 1795) – **TO:** Andreevskoe, 22.VI, 9.VII.1988 – 3 spm. P.S. Sitnikov, 13.VII.2002 – 1 spm. A.A. Sizov; Tavolzhan, 26.VII.1996 – 1 spm. P.S. Sitnikov; Ingair, 30.VI.1988 – 1 spm. P.S. Sitnikov; Nadtsy, 29.VI.1994 – 1 spm. P.S. Sitnikov; Peña, 1.VII.1994 – 1 spm. P.S. Sitnikov; Sladkovo, 20.VII.1996 – 1 spm. P.S. Sitnikov.

78. *Jodis lactearia* (Linnaeus, 1758) – Tschugunov, 1914:447 (*Thalera*, Khanty-Mansi Autonomous Okrug-Yugra); Korshunov, 1973a:145 (*Thalera*, Khanty-Mansi Autonomous Okrug-Yugra). **TO:** Mazurovo, 21.VI.1986 – 1 spm. P.S. Sitnikov.

79. **Jodis putata* (Linnaeus, 1758) – **TO:** Ingair, 30.VI.1988 – 1 spm. P.S. Sitnikov.

80. **Hemithea aestivaria* (Hübner, 1789) – **TO:** Big Krasnoyar, 19.VII.2001 – 1 spm. A.A. Sizov; Maryino gorge, 19.VII.2019 – 1 spm. D.E. Galich.

81. *Thalera fimbrialis* (Scopoli, 1763) – Shchuko, 1916:148 (Ishim); Bukhkalo et al., 2014:139 (Tobolsk, Missia). **TO:** Abatsky, 10.VII.2001 – 2 spm. A.A. Sizov; Abramova, 07.IX.2018, 12.VII.2020. – 2 spm. D.E. Galich; Andreevskoe, 9.VII.1988 – 2 spm. P.S. Sitnikov; Mazurovo, 5, 7.VII.1980 – 2 spm. P.S. Sitnikov; Maryino gorge, 19.VII.2019 – 2 spm. D.E. Galich; Tyumen, 26.VII.1999 – 1 spm. A.A. Sizov.

82. *Chlorissa viridata* (Linnaeus, 1758) – Bukhkalo et al., 2014:139 (Tobolsk). **TO:** Andreevskoe, 4, 18.VI.1988 – 2 spm. P.S. Sitnikov; Babarynka, 31.V.1997 – 1 spm. P.S. Sitnikov; Vagai, 21.VI.2002 – 1 spm. A.A. Sizov; Vlasovo, 15.VI.1990 – 1 spm. P.S. Sitnikov; Dubrovnoe, 13.VII.1999 – 1 spm. P.S. Sitnikov; Mazurovo, 5.VII.1980 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 9, 11.VI.1989 – 3 spm. P.S. Sitnikov; Tyumen, 18.VI.1981 – 1 spm. P.S. Sitnikov, 20.VI.1999 – 1 spm. A.A. Sizov; Shashova, 10.VI, 04.VIII.2020 – 2 spm. D.E. Galich.

Larentiinae

83. *Schistostege nubilaria* (Hübner, [1799]) – Korshunov, 1973b:182 (Tobolsk).

84. **Carsia sororiata* (Hübner, 1808) – **YNAO:** Aksarka, 25-30.VIII, 5.IX.1999 – 11 spm. A.A. Sizov; Krasnyi Kamen`, 11-20.VII.2012 – 3 males, 1 female, S.A. Knyazev; Ratta, 26.VII.1989 – 1 spm. P.S. Sitnikov. **KMAO:** Agirish, 12.VIII.2002 – 3 spm. A.A. Sizov; Malinovsky, 8.VIII.2002 – 2 spm. A.A. Sizov; Tayozhny, 11VIII.2002 – 3 spm. A.A. Sizov; Wah, 21.VIII.1987 – 1 spm. A.V. Soromotin; Zelenoborsk, 13.VIII.2002 – 1 spm. A.A. Sizov. **TO:** Andreevskoe, 23.VII.1988 – 1 spm. P.S. Sitnikov; Kultybaika, 10.VII.1997 – 2 spm. P.S. Sitnikov; Kuchak, 15, 18.VII.1998 – 2 spm. A.A. Sizov; Sannikovo, 4.VIII.1999 – 1 spm. A.A. Sizov.

85. *Aplocera praeformata* (Hübner, 1826) – Korshunov, 1973b:182 (*Anaitis*, Sokolovka, Tobolsk); (Bukhkalo et al., 2014:139 (Missia, Tobolsk).

86. **Lithostege farinata* (Hufnagel, 1767) – **TO:** Andreevskoe, 18.VI.1988, 23.VII.1992 – 2 spm. P.S. Sitnikov; Babarynka, 31.V.1997 – 1 spm. P.S. Sitnikov; Vlasovo, 15.VI.1990 – 1 spm. P.S. Sitnikov; Dubrovnoe, 2.VII.1999 – 1 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 2 spm. P.S. Sitnikov; Sladkovo, 28.VI.1990 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov; Tyumen, 11, 29.VI.1987 – 2 spm. P.S. Sitnikov; Yalutorovsk, 26.VI.1996, 16.VI.1997 – 3 spm. P.S. Sitnikov.

87. *Acasis appensata* (Eversmann, 1842) – Sizov, 2001:64 (Yamalo-Nenets Autonomous Okrug).

88. *Lobophora halterata* (Hufnagel, 1767) – Bukhkalo et al., 2014:139 (Tobolsk). **TO:** Andreevskoe, 19.V.1987, 4, 18.VI.1988 – 3 spm. P.S. Sitnikov, 18.V, 2.VI.1998 – 4 spm. V.V. Sinitsin; Tavolzhan, 9.V.1997 – 1 spm. P.S. Sitnikov; Tyumen, 26.V.1987, 3.VI.1988 – 4 spm. P.S. Sitnikov; Tyumen (E), 15, 17, 23, 29.V.1991 – 4 spm. P.S. Sitnikov.

89. **Pterapherapteryx sexalata* (Retzius, 1783) – **TO:** Abramova, 10.VII.2020 – 1 spm. D.E. Galich; Andreevskoe, 18.VII.1988 – 1 spm. P.S. Sitnikov; Big Krasnoyar, 18.VII.2001 – 1 spm. A.A. Sizov; Vedenyatskoe, 12.VI.1989 – 1 spm. P.S. Sitnikov; Vlasovo, 15.VI.1990 – 1 spm. P.S. Sitnikov; Ingair, 30.VI.1988 – 1 spm. P.S. Sitnikov; Kuchak, 10, 11, 15.VII.1998, 27.VI.1999 – 4 spm. A.A. Sizov.

90. *Trichopteryx carpinata* (Borkhausen, 1794) – Shchuko, 1916:148 (*Lobophora*, Karasulskaya); Bukhkalo et al., 2014:139 (Tobolsk). **TO:** Abramova, 11.V.2020 – 1 spm. D.E. Galich; Andreevskoe, 18.V.1998 – 1 spm. V.V. Sinitsin; Lesozavodsky, 5.V.2020 – 3 spm. P.S. Sitnikov; Tyumen, 6.V.1981, 12, 17.V.1987 – 3 spm. P.S. Sitnikov.

91. *Scotopteryx bipunctaria* (Denis et Schiffermüller, 1775) – Shchuko, 1916:148 (Ortholitha, Karasulskaya).

92. *Scotopteryx chenopodiata* (Linnaeus, 1758) – Shchuko, 1916:148 (*Ortholitha limitata*, Karasulskaya); (Korshunov, 1973b (*Ortholitha*, Durynina, Tobolsk); (Bukhkalo et al., 2014:138 (Tobolsk). **KMAO:** Komsomolsky, 23.VII.1998 – 1 spm. P.S. Sitnikov. **TO:** Abramova, 12.VII.2020 – 1 spm. D.E. Galich; Andreevskoe, 12.VII.1987, 9, 23.VII.1988 – 3 spm. P.S. Sitnikov; Big Krasnoyar, 18.VII.2001 – 1 spm. A.A. Sizov; Ingair, 23.VII.1990 – 1 spm. P.S. Sitnikov; Kazanskoe, 13.VII.2001 – 1 spm. A.A. Sizov; Kultybaika, 16.VII.1993, 8.VII.1994, 7.VII.1995, 3.VII.1997 – 6 spm. P.S. Sitnikov; Kuchak, 3, 11, 13.VII.1998 – 5 spm. A.A. Sizov; Mazurovo, 1, 11.VII.1980 – 2 spm. P.S. Sitnikov; Maryino gorge, 19.VII, 22.VIII.2019 – 2 spm. D.E. Galich; Melioratorov, 15.VII.1993 – 1 spm. P.S. Sitnikov; Motushi, 4.VII.1998 – 1 spm. P.S. Sitnikov; Nadtsy, 25.VIII.1986 – 1 spm. P.S. Sitnikov; Peña, 1.VII.1994 – 2 spm. P.S. Sitnikov; Tavolzhan, 25.VII.1996 – 1 spm. P.S. Sitnikov; Tyumen, 3, 11.VII.1987 – 2 spm. P.S. Sitnikov; Chervishevo, 26.VII.1987 – 1 spm. P.S. Sitnikov; Chernoe, 2.VIII.1999 – 2 spm. A.A. Sizov.

93. *Scotopteryx luridata* (Hufnagel, 1767) – **TO:** Vasilenko, 2003:307 (Salairka).

94. **Scotopteryx mucronata* (Scopoli, 1763) – **TO:** Rechkina, 25.VI.1988 – 1 spm. O.G. Krevskaya.

95. *Euphyia unangulata* (Haworth, 1810) – Shchuko, 1916:148 (*Larentia*, Bogandinskoe); Bukhkalo et al., 2014:138 (Tobolsk). **TO:** Andreevskoe, 22.VIII.1988 – 1 spm. P.S. Sitnikov, 9.VIII.1998 – 1 spm. A.A. Sizov; Ingair, 27.VI.1994 – 1 spm. P.S. Sitnikov; Kultybaika, 8.VII.1994 – 1 spm. P.S. Sitnikov; Kuchak, 3, 11.VII.1998, 26.VI.1999 – 3 spm. A.A. Sizov; Mazurovo, 26.VI.1979 – 1 spm. P.S. Sitnikov; Tyumen, 15.VIII.1987 – 1 spm. P.S. Sitnikov.

96. *Spargania luctuata* ([Denis et Schiffermüller], 1775) – Tschugunov, 1914:448 (*Larentia*, Khanty-Mansi Autonomous Okrug-Yugra); 1917:2 (*Larentia*, Berezovo), 1925:70 (*Larentia*, Berezovo); Kolosov, 1933:51 (*Larentia lugubrata*, Yamalo-Nenets Autonomous Okrug); Bukhkalo et al., 2014:138 (*luctuata borealis*, Tobolsk). **YNAO:** Aksarka, 4.VII.1991 – 1 spm. P.S. Sitnikov; Korotchaevo, 14.VII.1999 – 1 spm. A.A. Sizov; Krasnoselkup, 7.VII.1989, 24.VI.1994 – 2 spm. P.S. Sitnikov. **KMAO:** Pripolyarnyi, 29.VI.1993 – 1 spm. P.S. Sitnikov. **TO:** Ingair, 30.VI.1988, 15.VI.1991 – 2 spm. P.S. Sitnikov; Tyumen, 20.VI.1981 – 1 spm. P.S. Sitnikov.

97. *Phibalapteryx virgata* (Hufnagel, 1767) – Shchuko, 1916:148 (*Mesotype*, Karasulskaya). **TO:** Andreevskoe, 4, 18.VI, 9, 22.VII.1988, 22.VII.1998, 17.V.1993 – 6 spm. P.S. Sitnikov.

98. **Orthonama vittata* (Borkhausen, 1794) – **TO:** Andreevskoe, 18.VI, 22.VII, 13.VIII.1988 – 3 spm. P.S. Sitnikov; Vagai, 21.VI.2002 – 1 spm. A.A. Sizov; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov; Tyumen, 3.VIII.1981 – 1 spm. P.S. Sitnikov; Chervishevo, 26.VII.1987 – 1 spm. P.S. Sitnikov.

99. *Psychophora sabini* Kirby, 1824 – Lomakin et al., 2001:362 (Teuteyaga); Red book of the Tyumen Region, 2004:142 (Teuteyaga); Red book of the Yamalo-Nenets Autonomous Okrug, 2010 (annex):224 (Teuteyaga); Sitnikov et al., 2013:126 (Yamalo-Nenets Autonomous Okrug).

100. **Xanthorhoe abrasaria* (Herrich-Schäffer, 1855) – **YNAO:** Krasnyi Kamen`, 11-13.VII.2012 – 4 spm. S.A. Knyazev. **KMAO:** Agan, 15.VII.1988 – 1 spm. P.S. Sitnikov.

101. *Xanthorhoe biriviata* (Borkhausen, 1794) – Korshunov, 1973b:182 (*Cidaria*, Berezovo); Sizov, 2001:66 (Tyumen Region). **TO:** Chervishevo, 26.VII.1987 – 1 spm. P.S. Sitnikov.

102. *Xanthorhoe decoloraria* (Esper, 1806) – Tschetverikov, 1911:24 (*Larentia munitata*, Yamalo-Nenets Autonomous Okrug); Olshvang, 1992:46 (*munitata*, Yamalo-Nenets Autonomous Okrug). **YNAO:** Aksarka, 4.VII.1991 – 1 spm. P.S. Sitnikov; Krasnyi Kamen`, 10-12.VII.2012 – 4 spm. S.A. Knyazev; Labytnangi, 9-10. VII.2012 – 2 spm. S.A. Knyazev; Ratta, 24.VII.1989 – 1 spm. P.S. Sitnikov.

103. **Xanthorhoe designata* (Hufnagel, 1767) – **TO:** Andreevskoe, 24.VIII.1998 – 1 spm. A.A. Sizov; Kuchak, 1, 3.VII.1998 – 3 spm. A.A. Sizov; Maryino gorge, 22.VIII.2019 – 1 spm. D.E. Galich; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov.

104. **Xanthorhoe fluctuata* (Linnaeus, 1758) – **TO:** Vlasovo, 15.VII.1990 – 1 spm. P.S. Sitnikov; Ingair, 30.VI.1988, 23.VII.1990 – 2 spm. P.S. Sitnikov; Ermak's garden, 18.VII.2007 – 1 spm. D.E. Galich; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov; Tavolzhan, 25.VII.1996 – 1 spm. P.S. Sitnikov; Tyumen, 31.V, 1.VI.1981, 11.VI.1987, 22.V.1988 – 4 spm. P.S. Sitnikov, 20.VI, 26VII.1999 – 2 spm. A.A. Sizov.

105. *Xanthorhoe ferrugata* (Clerck, 1759) – Tschugunov, 1925:70 (*Larentia unidentaria*, Yamalo-Nenets Autonomous Okrug); Korshunov, 1973b:182 (*Cidaria*, Berezovo); NP Kondinsky Lakes, 2012:235 (Khanty-Mansi Autonomous Okrug-Yugra). **YNAO:** Muzhi, 6.VII.1991 – 1 spm. P.S. Sitnikov; Noyabrsk, 8.VII.1999 – 1 spm. A.A. Sizov. **TO:** Andreevskoe, 18.VI, 23.VII, 22.VIII.1988 – 3 spm. P.S. Sitnikov, 13.VII.2002 – 1 spm. A.A. Sizov; Vlasovo, 15.VI.1990 – 1 spm. P.S. Sitnikov; Dubrovnoe, 5.VIII.1998, 9.VII.1999 – 2 spm. P.S. Sitnikov; Ingair, 22, 23.VII.1990 – 2 spm. P.S. Sitnikov; Kazanskoe, 13.VII.2001 – 1 spm. A.A. Sizov; Kuchak, 1, 3, 13, 15.VII.1998, 27.VI.1999 – 7 spm. A.A. Sizov; Missia, 10.VII.2007 – 1 spm. D.E. Galich; Motushi, 4.VII.1998 – 2 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov; Tyumen, 26.V, 3, 18.VII.1987, 19.VI.1998 – 4 spm. P.S. Sitnikov, 21.VIII.2000 – 3 spm. A.A.

Sizov; Tyumen (E), 29.V.1991 – 1 spm. P.S. Sitnikov; Yalutorovsk, 16.VI.1997 – 1 spm. P.S. Sitnikov.

106. *Xanthorhoe montanata* ([Denis et Schiffermüller], 1775) – Tschugunov, 1914:448 (*Larentia*, Khanty-Mansi Autonomous Okrug-Yugra), 1925:70 (*Larentia*, Khanty-Mansi Autonomous Okrug-Yugra); Shchuko, 1916:148 (*Larentia*, Bogandinskoe); Korshunov, 1973b:182 (*Cidaria*, Berezovo); Bukhkalo et al., 2014:138 (Tobolsk). **KMAO:** Pripolyarnyi, 29.VI.1993 – 2 spm. P.S. Sitnikov; Tolya, 9.VII.1993 – 1 spm. P.S. Sitnikov; Ust`-Balyk, 9, 13, 17.VII.1986 – 5 spm. P.S. Sitnikov. **TO:** Ingair, 30.VI.1988, 15.VI.1991, 27.VI.1994 – 3 spm. P.S. Sitnikov; Kultybaika, 7.VII.1995 – 1 spm. P.S. Sitnikov; Kuchak, 10.VII.1998 – 1 spm. A.A. Sizov; Mazurovo, 7.VII.1982 – 1 spm. P.S. Sitnikov; Missia, 10.VII.2006 – 1 spm. D.E. Galich; Motushi, 4.VII.1998 – 1 spm. P.S. Sitnikov; Nadtsy, 27.VI.1991 – 1 spm. P.S. Sitnikov; Peña, 1.VII.1994 – 1 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov.

107. *Xanthorhoe pseudoannotinata* Vasilenko, 2007 – Vasilenko, 2007:1019 (Oktyabrskoe).

108. **Xanthorhoe quadrifasciaria* (Clerck, 1759) – **TO:** Abatsky, 10.VII.2001 – 1 spm. A.A. Sizov; Andreevskoe, 9.VII.1988 – 1 spm. P.S. Sitnikov; Kultybaika, 7.VII.1995 – 1 spm. P.S. Sitnikov; Chervishevo, 21.VII.1987 – 1 spm. P.S. Sitnikov; Ermak's garden, 13.VII.2006 – 1 spm. D.E. Galich; Tyumen, 25.VII.2000 – 1 spm. A.A. Sizov; Shashova, 17.VI.1997 – 1 spm. P.S. Sitnikov; Yalutorovsk, 16.VI.1997 – 1 spm. P.S. Sitnikov.

109. *Xanthorhoe sajanaria* (Prout, 1914) – Sizov, 2001: Red book of the Tyumen Region, 2004 (annex):463.

110. **Xanthorhoe spadicearia* ([Denis et Schiffermüller], 1775) – **TO:** Tyumen, 26.V, 11.VI.1987 – 2 spm. P.S. Sitnikov.

111. **Catarhoe cuculata* (Hufnagel, 1767) – **TO:** Abatsky, 10.VII.2001 – 1 spm. A.A. Sizov; Andreevskoe, 23, 30.VII.1988 – 2 spm. P.S. Sitnikov; Ingair, 28.VI.1994 – 1 spm. P.S. Sitnikov; Nadtsy, 30.VI.1994 – 1 spm. P.S. Sitnikov; Peña, 1.VII.1994 – 1 spm. P.S. Sitnikov; Shashova, 10.VI.2020 – 1 spm. D.E. Galich.

112. *Catarhoe rubidata* ([Denis et Schiffermüller], 1775) – Red book of the Tyumen Region, 2004:143 (Andreevskoe). **TO:** Missia, 07.VI.2006 – 1 spm. D.E. Galich.

113. *Camtogramma bilineata* (Linnaeus, 1758) – Korshunov, 1973b:183 (Durynina, Tobolsk); Sizov, 2001:66 (Tyumen Region). **TO:** Abatsky, 10.VII.2001 – 1 spm. A.A. Sizov; Big Krasnoyar, 19.VII.2001 – 1 spm. A.A. Sizov; Mazurovo, 26.VI, 7.VII.1980 – 2 spm. P.S. Sitnikov; Rechkina, 19.VIII.1989 – 1 spm. O.G. Krevskaya.

114. **Costaconvexa polygrammata* (Borkhausen, 1794) – **TO:** Istoshino, 13-14. VIII.2016 – 1 female, S.A. Knyazev.

115. *Epirrhoe alternata* (Müller, 1764) – Shchuko, 1916:148 (*Larentia sociata*, Bogandinskoe); Olshvang, 1992:46 (river floodplain Khadytayakhi (Yamalo-Nenets Autonomous Okrug). **YNAO:** Aksarka, 4.VII.1991 – 1 spm. P.S. Sitnikov. **KMAO:** Malinovsky, 8.VIII.2002 – 1 spm. A.A. Sizov. **TO:** Abatsky, 10.VII.2001 – 2 spm. A.A. Sizov; Andreevskoe, 18.VI, 9, 23, 30.VII, 7, 13.VIII.1988, 23.VII.1992 – 7 spm.

P.S. Sitnikov, 9.VIII.1998, 13.VII.2002 – 3 spm. A.A. Sizov; Vagai, 21.VI.2002 – 1 spm. A.A. Sizov; Big Kunchur, 26.VI.2002 – 1 spm. A.A. Sizov; Istoshino, 13-14. VIII.2016 – 1 female, S.A. Knyazev; Kryukovskoe, 26.VII.2019 – 1 spm. P.S. Sitnikov; Kuchak, 1, 10, 15.VII.1998 – 3 spm. P.S. Sitnikov; Lipovoe, 14.VI.1992 – 1 spm. P.S. Sitnikov; Mazurovo, 26.VI.1988 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov; Tyumen, 11, 29.VI, 15.VIII.1987 – 3 spm. P.S. Sitnikov, 26.VII.1999 – 2 spm. A.A. Sizov; Tyumen (E), 29.V.1991 – 1 spm. P.S. Sitnikov; Tyumen (forest nursery), 18.V.1980 – 1 spm. P.S. Sitnikov; Chervishevo, 26.VII.1987 – 1 spm. P.S. Sitnikov; Chernoe, 2.VIII.1999 – 1 spm. A.A. Sizov.

116. *Epirrhoe galiata* ([Denis et Schiffermüller], 1775) – Korshunov, 1973b:183 (*Cidaria*, Sokolovka, Tobolsk).

117. **Epirrhoe hastulata* (Hübner, 1790) – **TO:** Dubrovnoe, 9.VII.1999 – 1 spm. P.S. Sitnikov.

118. **Epirrhoe tartuensis* Möls, 1965 – **TO:** Andreevskoe, 9.VII.1988 – 2 spm. P.S. Sitnikov; 10.VI.2006 – 1 spm. D.E. Galich.

119. *Epirrhoe tristata* (Linnaeus, 1758) – Tschugunov, 1914:448 (*Larentia*, Khanty-Mansi Autonomous Okrug-Yugra); 1925:70 (*Larentia*, Berezovo); Shchuko, 1916:148 (*Larentia*, Bogandinskoe (station). **TO:** Andreevskoe, 22.V, 18, 22.VI.1988, 23.VII.1988, 30.VII.1998 – 5 spm. P.S. Sitnikov, 25.VI.2000 – 1 spm. A.A. Sizov; Istoshino, 13-14.VIII.2016 – 1 male, S.A. Knyazev; Tyuleshov bor, 23.V.1997 – 2 spm. P.S. Sitnikov; Shashova, 16.VI.2020 – 1 spm. D.E. Galich; Vlasovo, 15.VI.1990 – 1 spm. P.S. Sitnikov.

120. **Earophila badiata* ([Denis et Schiffermüller], 1775) – **TO:** Lesozavodsky, 5.V.2020 – 1 spm. P.S. Sitnikov; Ermak's garden, 18.VII.2007 – 1 spm. (larva) D.E. Galich; Tobolsk, 19.VII.2007 – 1 spm. (larva) D.E. Galich.

121. **Mesoleuca albicillata* (Linnaeus, 1758) – **YNAO:** Krasnoselkup, 10, 11.VII.1989 – 2 spm. P.S. Sitnikov. **TO:** Ingair, 15.VI.1991 – 1 spm. P.S. Sitnikov; Kuchak, 3.VII.1998 – 1 spm. A.A. Sizov; Nadtsy, 27.VI.1991, 29.VI.1994 – 2 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov, 10.VII.2001 – 1 spm. A.A. Sizov; Staraya Shadrina, 11, 13.VI.1989 – 2 spm. P.S. Sitnikov; Tyumen, 8.VII.2002 – 1 spm. A.A. Sizov; Yarkovo, 6.VII.1997 – 1 spm. P.S. Sitnikov.

122. *Pelurga comitata* (Linnaeus, 1758) – Shchuko, 1916:148 (*Larentia*, Bogandinskoe); Korshunov, 1973b:183 (*Larentia*, Durynina, Tobolsk); (Bukhkalo et al., 2014:138 (Tobolsk). **TO:** Abatsky, 10.VII.2001 – 1 spm. A.A. Sizov; Andreevskoe, 9, 23.VII, 13.VIII.1988 – 4 spm. P.S. Sitnikov, 9, 24.VIII.1998 – 2 spm. A.A. Sizov; Dubrovnoe, 7.VII.1999 – 1 spm. P.S. Sitnikov; Ingair, 24.VI.1990 – 1 spm. P.S. Sitnikov; Kultybaika, 16.VII.1993, 8.VII.1994 – 3 spm. P.S. Sitnikov; Kuchak, 10, 13, 15, 18.VII.1998 – 6 spm. A.A. Sizov; Nadtsy, 25.VIII.1986, 29.VI.1994 – 2 spm. P.S. Sitnikov; Sladkovo, 20.VII.1996 – 1 spm. P.S. Sitnikov; Tavolzhan, 25, 26.VII.1996 – 5 spm. P.S. Sitnikov; Tyumen, 18.VII.1987, 27.VII.1992, 30.VII, 12.VIII.1999 – 5 spm. P.S. Sitnikov; Chervishevo, 26.VII.1987 – 1 spm. P.S. Sitnikov.

123. **Larentia clavaria* (Haworth, 1809) – **TO:** 13.VII.2006 – 1 spm. D.E. Galich.

124. *Entephria caesiata* ([Denis et Schiffermüller], 1775) – Tschugunov, 1917:11 (*Larentia*, Khanty-Mansi Autonomous Okrug-Yugra); Olshvang, 1992:46 (river floodplain Khadytayakhi); Bukhkalo et al., 2014:138 (Tobolsk). **YNAO:** Krasnyi Kamen`, 10-18.VII.2012 – 2 spm. S.A. Knyazev; Labytnangi, 9-10.VII.2012 – 1 male, S.A. Knyazev. **KMAO:** Aksarka, 26, 27, 30, 31.VIII.1999 – 5 spm. A.A. Sizov; Novy Urengoy, 15.VII.1999 – 10 spm. A.A. Sizov; Ratta, 24, 27.VII.1989 – 2 spm. P.S. Sitnikov.

125. *Entephria polata* (Duponchel, 1830) – Tschetverikov, 1911:24 (*Larentia*, Yamalo-Nenets Autonomous Okrug); Tschugunov, 1917:18 (*Larentia*, Khanty-Mansi Autonomous Okrug-Yugra), 1925:70 (*Larentia*, Khanty-Mansi Autonomous Okrug-Yugra); Kolosov, 1933:51 (*Larentia*, Khanty-Mansi Autonomous Okrug-Yugra; Olshvang, 1992:46 (river floodplain Khadytayakhi). **YNAO:** Krasnyi Kamen`, 10-12.VII.2012 – 1 male, 2 females, S.A. Knyazev; Yuribey, 26, 29.VII.1995 – 2 spm. E.I. Kochegov.

126. *Entephria transsibirica* Vasilenko, 1990 – Vasilenko, 2002:691 (*polata* (previously described as a subspecies), Yamalo-Nenets Autonomous Okrug).

127. *Hydriomena furcata* (Thunberg, 1784) – Shchuko, 1916:148 (*Larentia sordidata*, Bogandinskoe). **TO:** Andreevskoe, 8.VIII.1998 – 1 spm. A.A. Sizov; Ingair, 23.VII.1990 – 1 spm. P.S. Sitnikov; Kuchak, 19.VIII.1999 – 1 spm. P.S. Sitnikov; Nadtsy, 25.VIII.1986 – 1 spm. P.S. Sitnikov; Tyumen, 20.VIII.1980 – 1 spm. P.S. Sitnikov; Chervishevo, 16.VIII.1981 – 1 spm. P.S. Sitnikov.

128. *Hydriomena impluviata* ([Denis et Schiffermüller], 1775) – Sizov, 2001:64 (*coerulata*, Yamalo-Nenets Autonomous Okrug).

129. **Heterothera serraria* (Lienig, 1846) – **TO:** Velizhany, 16.VI.1998 – 3 spm. P.S. Sitnikov.

130. **Thera obeliscata* (Hübner, 1787) – **TO:** Andreevskoe, 9.VII.1988 – 1 spm. P.S. Sitnikov, 13.VII.2002 – 1 spm. A.A. Sizov; Vagai, 21.VI.2002 – 1 spm. A.A. Sizov; Kultybaika, 7.VII.1995, 11.VII.1997 – 2 spm. P.S. Sitnikov; Kuchak, 8, 10, 11, 13, 15, 18.VII.1998 – 12 spm. A.A. Sizov; Chervishevo, 8.VIII.1981, 21, 26.VII.1987 – 3 spm. P.S. Sitnikov.

131. *Thera variata* ([Denis et Schiffermüller], 1775) – Shchuko, 1916:148 (*Larentia*, Bogandinskoe); Tschugunov, 1925:70 (*Larentia*, Khanty-Mansi Autonomous Okrug-Yugra). **TO:** Vagai, 21.VI.2002 – 2 spm. A.A. Sizov; Ingair, 30.VI.1988 – 1 spm. P.S. Sitnikov.

132. *Plemyria rubiginata* (Denis et Schiffermüller, 1775) – Korshunov, 1973b:182 (*Cidaria bicolorata*, Sokolovka). **KMAO:** Pripolyarnyi, 10.VIII.1991 – 1 spm. P.S. Sitnikov. **TO:** Abramova, 4.VI.2009 – 1 spm. D.E. Galich; Kuchak, 19.VIII.1999 – 1 spm. P.S. Sitnikov; Tyumen, 26.VII.1999 – 2 spm. A.A. Sizov; Chervishevo, 3.VIII.1981, 26.VII.1989 – 3 spm. P.S. Sitnikov.

133. *Electrophaes corylata* (Thunberg, 1792) – Shchuko, 1916:148 (*Larentia*, Bogandinskoe). **TO:** Andreevskoe, 18.VI.1988 – 1 spm. P.S. Sitnikov; Vagai, 21.VI.2002 – 1 spm. A.A. Sizov; Vedenyatskoe, 12.VI.1989 – 1 spm. P.S. Sitnikov; Ingair, 30.VI.1988 – 3 spm. P.S. Sitnikov; Kuchak, 1, 8.VII.1998, 26, 27.VI.1999 – 4

spm. A.A. Sizov; Mazurovo, 26.VI.1988 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 2 spm. P.S. Sitnikov; Tyumen, 8, 14.VI.1981 – 2 spm. P.S. Sitnikov, 12.VI.1999 – 1 spm. A.A. Sizov.

134. **Eulithis achatinellaria* (Oberthür, 1880) – **TO:** Abramova, 8.IX.2018 – 1 spm. D.E. Galich; Ermak's garden, 18.VII.2007 – 1 spm. D.E. Galich; Istoshino, 13-14.VIII.2016 – 1 female, S.A. Knyazev; Missia, 9.VI.2006 – 1 spm. D.E. Galich.

135. *Eulithis mellinata* (Fabricius, 1787) – Bukhkalo et al., 2014:138 (Tobolsk). **TO:** Abatsky, 10.VII.2001 – 1 spm. A.A. Sizov; Andreevskoe, 13.VII.2002 – 1 spm. A.A. Sizov; Big Krasnoyar, 19.VII.2001 – 3 spm. A.A. Sizov; Tyumen, 10.VI.1979, 3.VII.1987 – 2 spm. P.S. Sitnikov.

136. *Eulithis populata* (Linnaeus, 1758) – Tschugunov, 1925:70 (*Lygris*, Khanty-Mansi Autonomous Okrug-Yugra); Korshunov, 1973b:182 (*Larentia*, Tobolsk); NP Kondinsky Lakes, 2012:235 (Khanty-Mansi Autonomous Okrug-Yugra); Bukhkalo et al., 2014:138 (Tobolsk). **YNAO:** Aksarka, 25, 26, 28.VIII, 5.IX.1999 – 5 spm. A.A. Sizov; Krasnyi Kamen`, 10-17.VII.2012 – 8 males, S.A. Knyazev. **KMAO:** Beloyarsky, 13.VIII.1990 – 1 spm. P.S. Sitnikov; Bolshetarkhovo, 3.VIII.1985 – 1 spm. P.S. Sitnikov; Wah, 21.VIII.1987 – spm. A.V. Soromotin; Malinovsky, 8.VIII.2002 – 1 spm. A.A. Sizov; Tayozhny, 9.VIII.2002 – 2 spm. A.A. Sizov. **TO:** Ingair, 24.VI.1990 – 1 spm. P.S. Sitnikov; Dubrovnoe, 8.VII.1999 – 1 spm. P.S. Sitnikov.

137. **Eulithis prunata* (Linnaeus, 1758) – **YNAO:** Krasnyi Kamen`, 16-18.VII.2012 – 3 males, S.A. Knyazev. **KMAO:** Tayozhny, 9.VIII.2002 – 1 spm. A.A. Sizov. **TO:** Abatsky, 10.VII.2001 – 1 spm. A.A. Sizov; Andreevskoe, 30.VII.1999 – 1 spm. A.A. Sizov; Tyumen, 11.VII.1987 – 1 spm. P.S. Sitnikov, 26.VII.1999 – 1 spm. A.A. Sizov.

138. *Eulithis pyropata* (Hübner, 1809) – Bukhkalo et al., 2014:138 (Tobolsk). **TO:** Andreevskoe, 23.VII.1988 – 2 spm. P.S. Sitnikov; Kuchak, 8.VII.1998 – 1 spm. A.A. Sizov.

139. *Eulithis testata* (Linnaeus, 1761) – Shchuko, 1916:148 (*Lygris*, Bogandinskoe). **KMAO:** Zelenoborsk, 13.VIII.2002 – 1 spm. A.A. Sizov; Numto, 26.VIII.1990 – 1 spm. P.S. Sitnikov; Tayozhny, 9, 10.VIII.2002 – 3 spm. A.A. Sizov. **TO:** Andreevskoe, 30.VII, 22.VIII.1988 – 2 spm. P.S. Sitnikov, 9, 24.VIII.1998, 15.VIII.1999 – 24 spm. A.A. Sizov; Ingair, 24.VI.1990 – 1 spm. P.S. Sitnikov; Kultybaika, 16.VII.1993 – 1 spm. P.S. Sitnikov; Kuchak, 19.VIII.1999 – 1 spm. P.S. Sitnikov; Tyumen, 27.VIII.1986, 30.VIII.1987 – 2 spm. P.S. Sitnikov.

140. **Gandaritis pyraliata* ([Denis et Schiffermüller], 1775) – **KMAO:** Pripolyarnyi, 9.VII.1993 – 1 spm. P.S. Sitnikov. **TO:** Andreevskoe, 9, 23.VII.1988 – 3 spm. P.S. Sitnikov; Chervishevo, 21.VII.1987 – 1 spm. P.S. Sitnikov; Ingair, 22.VII.1990 – 1 spm. P.S. Sitnikov; Kultybaika, 7.VII.1995 – 1 spm. P.S. Sitnikov; Maryino gorge, 19.VII.2019 – 1 spm. D.E. Galich.

141. **Ecliptopera capitata* (Herrich-Schäffer, 1839) – **TO:** Chervishevo, 26.VII.1987 – 1 spm. P.S. Sitnikov.

142. *Ecliptopera silaceata* ([Denis et Schiffermüller], 1775) – Sitnikov et al., 2004:282 (*Diactinia*, Ingair); Red book Tyumen Region, 2004 (annex):463 (*Diactinia*, Tyumen Region).

143. **Eustroma reticulata* ([Denis et Schiffermüller], 1775) – **KMAO:** Pripolyarnyi, 29.VI.1993 – 1 spm. P.S. Sitnikov. **TO:** Chervishevo, 26.VII.1987 – 2 spm. P.S. Sitnikov.

144. *Dysstroma citrata* (Linnaeus, 1758) – Tschugunov, 1925:70 (*Larentia truncata*, Khanty-Mansi Autonomous Okrug-Yugra); Vnukovsky, 1927:118 (*Cidaria citrata ab. immanata*, Khanty-Mansi Autonomous Okrug-Yugra); Kolosov, 1933:51 (*Larentia immanata*, Yamalo-Nenets Autonomous Okrug); Korshunov, 1973b:182 (*Cidaria*, Sokolovka, Tobolsk); Olshvang, 1992:46 (*Chloroclysta*, river floodplain Khadytayakhi); Bukhkalo et al., 2014:138 (Tobolsk). **YNAO:** Aksarka, 26.VIII.1999 – 1 spm. A.A. Sizov. **TO:** Andreevskoe, 9, 24.VIII.1998, 30.VII.1999 – 4 spm. A.A. Sizov.

145. **Dysstroma infuscata* (Tengström, 1869) – **YNAO:** Krasnyi Kamen`, 10-12. VII.2012 – 2 females, S.A. Knyazev.

146. *Dysstroma truncata* (Hufnagel, 1767) – Shchuko, 1916:148 (*Larentia*, Karasulskaya); NP Kondinsky Lakes, 2012:235 (Khanty-Mansi Autonomous Okrug-Yugra). **YNAO:** Krasnyi Kamen`, 10-12.VII.2012 – 1 male, S.A. Knyazev; Ratta, 17, 24, 27.VII.1989 – 4 spm. P.S. Sitnikov. **KMAO:** Bolshetarkhovo, 3, 10, 21.VIII.1985 – 3 spm. P.S. Sitnikov; Pasol, 14.VII.1987 – 1 spm. A.V. Soromotin; Tayozhny, 19.VIII.2002 – 1 spm. A.A. Sizov. **TO:** Andreevskoe, 22.VII.1988 – 1 spm. P.S. Sitnikov; Ingair, 25.VII.1990 – 1 spm. P.S. Sitnikov; Kuchak, 19.VIII.1999 – 1 spm. P.S. Sitnikov; Nadtsy, 25.VIII.1986 – 1 spm. P.S. Sitnikov; Tyumen, 15.VIII.1987 – 1 spm. P.S. Sitnikov; Chervishevo, 3.VIII.1981, 21.VII.1987 – 2 spm. P.S. Sitnikov.

147. **Colostygia aptata* (Hübner, 1813) – **KMAO:** Nefteyugansk, 17.VII.1986 – 1 spm. P.S. Sitnikov. **TO:** Ingair, 22.VII.1990 – 1 spm. P.S. Sitnikov; Tyumen, 16.VI.1981 – 1 spm. P.S. Sitnikov.

148. **Colostygia pectinataria* (Knoch, 1781) – **TO:** Kultybaika, 5.VII.1996 – 1 spm. P.S. Sitnikov.

149. **Cosmorhoe ocellata* (Linnaeus, 1758) – **TO:** Andreevskoe, 23.VII.1988 – 1 spm. P.S. Sitnikov, 25.VII.2000 – 1 spm. A.A. Sizov; Dubrovnoe, 2.VII.1999 – 1 spm. P.S. Sitnikov; Tyumen, 8.VII.2002 – 1 spm. A.A. Sizov.

150. *Lampropteryx suffumata* ([Denis et Schiffermüller], 1775) – Olshvang, 1992:46 (river floodplain Khadytayakhi); Bukhkalo et al., 2014:138 (Tobolsk). YNAO: Krasnyi Kamen`, 1-13.VII.2017 – 4 spm, V.O. Zurilina. **TO:** Lesozavodsky, 20.VIII.1980 – 1 spm.V.V. Sinitsin; Onokhino, 10.VI.1996 – 1 spm. P.S. Sitnikov.

151. *Baptria tibiale* (Esper, 1804) (Sizov, 2001) – Bukhkalo et al., 2014:138 (Tobolsk). **KMAO:** Nefteyugansk, 9.VII.1986 – 1 spm. P.S. Sitnikov. **TO:** Kuchak, 18.VII.1998 – 1 spm. A.A. Sizov.

152. *Hydria undulata* (Linnaeus, 1758) – Tschugunov, 1914:448 (*Eucosmia*, Khanty-Mansi Autonomous Okrug-Yugra); Korshunov, 1973b:182 (*Eucosmia*, Durynina, Tobolsk); Bukhkalo et al., 2014:138 (Tobolsk). **TO:** Abramova, 22.VII.2018

– 1 spm. D.E. Galich; Andreevskoe, 9.VII.1988 – 1 spm. P.S. Sitnikov; Ingair, 29.VI.1988 – 1 spm. P.S. Sitnikov; Kultybaika, 11.VII.1996, 11.VII.1997 – 3 spm. P.S. Sitnikov; Mazurovo, 1.VII.1982 – 1 spm. P.S. Sitnikov; Peña, 1.VII.1994 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov; Tyumen, 20.VI.1981 – 1 spm. P.S. Sitnikov.

153. *Rheumaptera hastata* (Linnaeus, 1758) – Tschugunov, 1914:448 (*Larentia*, Khanty-Mansi Autonomous Okrug-Yugra); Shchuko, 1916:148 (*Larentia*, Bogandinskoe); Korshunov, 1973b:183 (*Larentia*, Durynina, Tobolsk); Olshvang, 1992:46 (river floodplain Khadytayakhi). **YNAO:** Aksarka, 4.VII.1991 – 1 spm. P.S. Sitnikov; Krasnoselkup, 23.VI.1994 – 1 spm. P.S. Sitnikov; Krasnyi Kamen`, 19.VII.2012 – 1 spm. S.A. Knyazev; Muravlenko, 9.VII.1999 – 1 spm. A.A. Sizov; Ratta, 17, 19.VII.1989 – 2 spm. P.S. Sitnikov. **KMAO:** Pasol, 14.VII.1987 – 1 spm. A.V. Soromotin; Pripolyarnyi, 29.VI.1993 – 2 spm. P.S. Sitnikov. **TO:** Dubrovnoe, 2.VII.1999 – 1 spm. P.S. Sitnikov; Mazurovo, 21.VI.1986 – 2 spm. P.S. Sitnikov; Peña, 1.VII.1994 – 2 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov; Yushkova, 24.V.1997 – 2 spm. P.S. Sitnikov.

154. *Rheumaptera subhastata* (Nolcken, 1870) – Tschetverikov, 1927:25 (*Larentia hastata ab. subhastata*, Yamalo-Nenets Autonomous Okrug); Kolosov, 1933:51 (*Larentia*, Khanty-Mansi Autonomous Okrug-Yugra); Olshvang, 1992:46 (river floodplain Khadytayakhi). **YNAO:** Krasnoselkup, 22.VI.1994 – 1 spm. P.S. Sitnikov; Krasnyi Kamen`, 19.VII.2012 – 1 spm. S.A. Knyazev.

155. **Epirrita autumnata* (Borkhausen, 1794) – **YNAO:** Aksarka, 31.VIII, 5.IX.1999, 11, 16.IX.2002 – 4 spm. A.A. Sizov; Salekhard, 7.IX.2002 – 2 spm. A.A. Sizov. **KMAO:** Numto, 26.VIII.1990 – 1 spm. P.S. Sitnikov. **TO:** Tyumen, 13.IX.1986 – 2 spm. P.S. Sitnikov; 21.VIII.2000 – 1 spm. A.A. Sizov; Eco trail, 21.VII.2016 – 1 spm. D.E. Galich.

156. *Asthena albulata* (Hufnagel, 1767) – Sitnikov et al., 2004:282 (Peña); Red book of the Tyumen Region, 2004 (annex):463 (Tyumen Region).

157. *Hydrelia flammeolaria* (Hufnagel, 1767) – Tschugunov, 1914:448 (*Larentia luteata*, Khanty-Mansi Autonomous Okrug-Yugra). **TO:** Kuchak, 10.VII.1998, 26.VI.1999 – 3 spm. A.A. Sizov; Motushi, 6.VII.1998 – 1 spm. P.S. Sitnikov; Tyumen, 16.VI.1981 – 1 spm. P.S. Sitnikov.

158. *Hydrelia sylvata* ([Denis et Schiffermüller], 1775) – Sitnikov et al., 2004:282 (*testaceata*, Ingair); Red book of the Tyumen Region, 2004 (annex):463 (*testaceata*, Tyumen Region).

159. **Mesotype parallelolineata* (Retzius, 1783) – **TO:** Andreevskoe, 9, 13, 24.VIII.1998 – 5 spm. A.A. Sizov; Kuchak, 19.VIII.1999 – 1 spm. P.S. Sitnikov; Missia, 9.IX.2006 – 1 spm. D.E. Galich; Nadtsy, 25.VIII.1986 – 1 spm. P.S. Sitnikov; Chervishevo, 11, 16.VIII.1981 – 2 spm. P.S. Sitnikov; Istoshino, 13.VIII.2016 – 3 spm. S.A. Knyazev.

160. *Mesotype didymata* (Linnaeus 1758) – Tschugunov, 1925:70 (*Larentia*, Khanty-Mansi Autonomous Okrug-Yugra).

161. *Gagitodes sagittata* (Fabricius, 1787) – Sizov, 2001:66 (*Perizoma*, Tyumen Region); Red book of the Tyumen Region, 2004:146 (*Perizoma*, Ingair, Peña); Sitnikov et al., 2013:127 (*Perizoma*, Ingair, Peña). **TO:** Kuchak, 3.VII.1998 – 1 spm. A.A. Sizov.

162. **Perizoma albulata* ([Denis et Schiffermüller], 1775) – **TO:** Abramova, 17.VII.2020 – 1 spm. D.E. Galich; Andreevskoe, 9.VII.1988 – 1 spm. P.S. Sitnikov; Ingair, 30.VI.1988, 15.VI.1991 – 2 spm. P.S. Sitnikov; Kultybaika, 7.VII.1995, 11.VII.1997 – 2 spm. P.S. Sitnikov; Kuchak, 1, 10, 14, 18.VII.1998 – 6 spm. A.A. Sizov; Mazurovo, 29.VI.1982 – 1 spm. P.S. Sitnikov; Tavolzhan, 26.VII.1996 – 1 spm. P.S. Sitnikov; Tyumen, 11, 29.VI, 3.VII.1987 – 3 spm. P.S. Sitnikov; Chervishevo, 26.VII.1987 – 1 spm. P.S. Sitnikov; Shashova, 10.VI.2020 – 3 spm. D.E. Galich.

163. **Perizoma alchemillata* (Linnaeus, 1758) – **TO:** Abatsky, 10.VII.2001 – 1 spm. A.A. Sizov; Andreevskoe, 13.VII.2002 – 1 spm. A.A. Sizov; Big Krasnoyar, 18-19.VII.2001 – 2 spm. A.A. Sizov; Kuchak, 10-11.VII.1998 – 3 spm. A.A. Sizov; Ermak's garden, 18.VII.2007 – 1 spm. D.E. Galich; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov.

164. **Perizoma blandiata* ([Denis et Schiffermüller], 1775) – **TO:** Abramova, 17.VII.2020 – 1 spm. D.E. Galich; Missia, 10.VII.2006 – 1 spm. D.E. Galich.

165. *Perizoma flavofasciata* (Thunberg, 1792) – Bukhkalo et al., 2014:138 (Tobolsk). **TO:** Abatsky, 10.VII.2001 – 2 spm. A.A. Sizov; Andreevskoe, 25.VI.2000, 13.VII.2002 – 5 spm. A.A. Sizov; Vagai, 21.VI.2002 – 4 spm. A.A. Sizov; Kazanskoe, 8.VII.1994 – 1 spm. P.S. Sitnikov; 13.VII.2001 – 1 spm. A.A. Sizov.

166. **Perizoma hydrata* (Treitschke, 1829) – **TO:** Shashova, 10.VI.2020 – 1 spm. D.E. Galich.

167. **Chloroclystis v-ata* (Haworth, 1809) – **TO:** Andreevskoe, 25.VI.2000 – 1 spm. A.A. Sizov; Missia, 9.VI.2006 – 1 spm. D.E. Galich.

168. **Pasiphila debiliata* (Hübner, [1817]) – **KMAO:** Malinovsky, 8.VIII.2002 – 1 spm. A.A. Sizov; Tayozhny, 10.VIII.2002 – 1 spm. A.A. Sizov.

169. **Pasiphila rectangulata* (Linnaeus, 1758) – **TO:** Andreevskoe, 13.VII.2002 – 4 spm. A.A. Sizov; Big Krasnoyar, 18.VII.2001 – 1 spm. A.A. Sizov.

170. **Eupithecia absinthiata* (Clerck, 1759) – **TO:** Andreevskoe, 9, 22, 23.VII.1988 – 3 spm. P.S. Sitnikov, 25.VI.2000, 13.VII.2002 – 4 spm. A.A. Sizov; Dubrovnoe, 8.VII.1999 – 1 spm. P.S. Sitnikov (earlier this species was defined as *Eupithecia goossensiata*); Ingair, 23.VII.1990 – 1 spm. P.S. Sitnikov; Kazanskoe, 13.VII.2001 – 1 spm. A.A. Sizov; Tavolzhan, 26.VII.1996 – 2 spm. P.S. Sitnikov; Tyumen, 3.VII.1987 – 1 spm. P.S. Sitnikov, 25.VII.2000, 8.VII.2002 – 2 spm. A.A. Sizov.

171. *Eupithecia actaeata* Walderdorff, 1869 – Sizov, 2001:64 (Tyumen Region), 2002:151 (Kuchak).

172. *Eupithecia addictata* Dietze, 1908 – Sizov, 2002:151 (Abatsky, Big Krasnoyar). **TO:** Skiing lodge, 23.VI.2006 – 1 spm. D.E. Galich.

173. *Eupithecia analoga* Djakonov, 1926 – Sizov, 2001:64 (*europaea*, Yamalo-Nenets Autonomous Okrug), 2002:152 (*europaea*, Gubkinsky); Vasilenko, 2003:307 (europaea, Gubkinsky).

174. **Eupithecia assimilata* Doubleday, 1856 – **TO:** Andreevskoe, 13.VII.2002 – 2 spm. A.A. Sizov; Motushi, 6.VII.1998 – 1 spm. P.S. Sitnikov.

175. *Eupithecia biornata* Christoph, 1867 – Sitnikov et al., 2004:282-283 (Sladkovo, Tavolzhan); Red book of the Tyumen Region, 2004 (annex):463 (Tyumen Region). **TO:** Kazanskoe, 13.VII.2001 – 1 spm. A.A. Sizov.

176. **Eupithecia carpophilata* Staudinger, 1897 – **TO:** Kryukovskoe, 26.VII.2019 – 1 spm. P.S. Sitnikov.

177. **Eupithecia centaureata* ([Denis et Schiffermüller], 1775) – **TO:** Abatsky, 10.VII.2001 – 1 spm. A.A. Sizov; Andreevskoe, 22.VIII.1988 – 1 spm. P.S. Sitnikov.

178. **Eupithecia denotata* (Hübner, [1813]) – **TO:** Andreevskoe, 13.VII.2002 – 1 spm. A.A. Sizov.

179. **Eupithecia egenaria* Herrich-Schäffer, 1848 – **TO:** Tyumen, 11.VI.1987 – 1 spm. P.S. Sitnikov.

180. *Eupithecia expallidata* Doubleday, 1856 – Sizov, 2001:64 (Tyumen Region), 2002:152 (Tyumen).

181. *Eupithecia extensaria* (Freyer, 1845) – Sizov, 2001:64 (Yamalo-Nenets Autonomous Okrug), 2002:151 (Gubkinsky).

182. *Eupithecia extraversaria* (Herrich-Schäffer, 1852) – Sizov, 2002:151 (Kazanskoe).

183. **Eupithecia gelidata* Möschler, 1860 ssp. *hyperboreata* Staudinger, 1861 – **YNAO:** Gubkinsky, 9.VII.1999 – 1 spm. A.A. Sizov; Tolka, 14.VII.1989 – 1 spm. P.S. Sitnikov. **TO:** Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov.

184. **Eupithecia icterata* (Villers, 1789) – **TO:** Andreevskoe, 9, 23.VII.1988 – 3 spm. P.S. Sitnikov, 25.VI.2000, 13.VII.2002 – 5 spm. A.A. Sizov; Ingair, 24.VI, 22, 23.VII.1990 – 4 spm. P.S. Sitnikov; Kazanskoe, 13.VII.2001 – 3 spm. A.A. Sizov; Kryukovskoe, 26.VII.2019 – 1 spm. P.S. Sitnikov; Kuchak, 18.VII.1998 – 2 spm. A.A. Sizov; Tyumen, 29.VI.1987 – 1 spm. P.S. Sitnikov, 26.VII.1999 – 1 spm. A.A. Sizov.

185. *Eupithecia innotata* (Hufnagel, 1767) – Bukhkalo et al., 2014:139 (Tobolsk). **TO:** Andreevskoe, 2.VI.1998 – 1 spm. V.V. Sinitsin.

186. **Eupithecia lanceata* (Hübner, 1825) – **TO:** Lesozavodsky, 5.V.2020 – 1 spm. P.S. Sitnikov; Tyumen, 10.V.1987 – 1 spm. P.S. Sitnikov.

187. **Eupithecia lariciata* (Freyer, 1842) – **YNAO:** Ratta, 24.VII.1989 – 1 spm. P.S. Sitnikov.

188. **Eupithecia linariata* ([Denis et Schiffermüller], 1775) – **TO:** Andreevskoe, 13.VII.2002 – 4 spm. A.A. Sizov; Dubrovnoe, 5.VII.1998, 4, 9.VII.1999 – 3 spm. P.S. Sitnikov; Kazanskoe, 13.VII.2001 – 1 spm. A.A. Sizov; Kuchak, 10.VII.1998 – 1 spm. A.A. Sizov; Maryino gorge, 22.VIII.2019 – 1 spm. D.E. Galich; Tyumen, 26.VII.1999 – 2 spm. A.A. Sizov.

189. **Eupithecia millefoliata* Rössler, 1866 – **TO:** Abatsky, 10.VII.2001 – 1 spm. A.A. Sizov; Andreevskoe, 23.VII.1988 – 1 spm. P.S. Sitnikov; Ingair, 23.VII.1990 – 1 spm. P.S. Sitnikov; Kazanskoe, 13.VII.2001 – 1 spm. A.A. Sizov; Mazurovo, 22.VI.1988 – 1 spm. P.S. Sitnikov; Sladkovo, 18.VI.1990 – 1 spm. P.S. Sitnikov; Tyumen, 29.VI.1987 – 1 spm. P.S. Sitnikov, 3.VII.2002 – 2 spm. A.A. Sizov.

190. *Eupithecia pimpinellata* (Hübner, [1813]) – Sizov, 2002:152 (Kuchak, Tyumen).

191. *Eupithecia plumbeolata* (Haworth, 1809) – Bukhkalo et al., 2014:138 (Tobolsk). **TO:** Andreevskoe, 22.VIII.1988 – 1 spm. P.S. Sitnikov; Kuchak, 3.VII.1998 – 1 spm. A.A. Sizov; Motushi, 4.VII.1998 – 1 spm. P.S. Sitnikov; Ermak's garden, 18.VII.2007 – 1 spm. D.E. Galich; Tyumen, 3.VII.1987 – 1 spm. P.S. Sitnikov; Shashova, 10.VI.2020 – 3 spm. D.E. Galich.

192. **Eupithecia pusillata* ([Denis et Schiffermüller], 1775) – **TO:** Andreevskoe, 23.VII.1983 – 2 spm. P.S. Sitnikov; Chervishevo, 21, 26.VII.1987 – 2 spm. P.S. Sitnikov.

193. *Eupithecia satyrata* (Hübner, 1813) – Sizov, 2001:64 (*rivosulata*, Yamalo-Nenets Autonomous Okrug), 2002:151 (*rivosulata*, Gubkinsky); Sitnikov et al., 2004:282 (*rivosulata*, Gubkinsky); Red book of the Tyumen Region, 2004 (annex):463 (*rivosulata*, Yamalo-Nenets Autonomous Okrug). **YNAO:** Krasnoselkup, 7, 10.VII.1989 – 3 spm. P.S. Sitnikov. **TO:** Andreevskoe, 23.VIII.1988 – 1 spm. P.S. Sitnikov; Vagai, 21.VI.2002 – 1 spm. A.A. Sizov; Big Kunchur, 26.VI.2002 – 1 spm. A.A. Sizov; Ermak's garden, 18.VII.2007 – 1 spm. D.E. Galich; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov; Tyumen, 11.VI.1987 – 1 spm. P.S. Sitnikov.

194. *Eupithecia selinata* Herrich-Schäffer, 1861 – Sizov, 2002:151 (Big Krasnoyar). **TO:** Vagai, 21.VI.2002 – 1 spm. A.A. Sizov; Shashova, 10.VI.2020 – 1 spm. D.E. Galich.

195. **Eupithecia simpliciata* (Haworth, 1809) – **TO:** Andreevskoe, 13.VII.2002 – 1 spm. A.A. Sizov; Tyumen, 27.VIII.1986 – 1 spm. P.S. Sitnikov.

196. *Eupithecia sinuosaria* (Eversmann, 1848) – Shchuko, 1916:148 (*Tephroclystia*, Bogandinskoe). **TO:** Tobolsk, 5.VIII.1999 – 1 spm. A.A. Sizov; Tyumen, 12.VI.1980, 20.VI.1981, 1.VII.1986, 18, 30.VII.1987, 23.VI.1998 – 6 spm. P.S. Sitnikov.

197. *Eupithecia suboxydata* Staudinger, 1897 – Sizov, 2002:152 (Kazanskoe).

198. **Eupithecia subfuscata* (Haworth, 1809) – **TO:** Abatsky, 10.VII.2001 – 1 spm. A.A. Sizov; Vagai, 21.VI.2002 – 2 spm. A.A. Sizov; Kazanskoe, 13.VII.2001 – 2 spm. A.A. Sizov; Maslyansky, 13.VI.1990 – 1 spm. P.S. Sitnikov; Motushi, 4.VII.1998 – 1 spm. P.S. Sitnikov; Tyumen, 26, 31.V, 3, 6, 11.VI, 3.VII.1987 – 7 spm. P.S. Sitnikov; Tyumen (E), 29.V.1991 – 1 spm. P.S. Sitnikov; Yalutorovsk, 16.VI.1997 – 1 spm. P.S. Sitnikov.

199. *Eupithecia subumbrata* ([Denis et Schiffermüller], 1775) – Sizov, 2001:64 (Tuymen Region), 2002:151 (Kuchak). **TO:** Shashova, 10.VI.2020 – 2 spm. D.E. Galich.

200. *Eupithecia succenturiata* (Linnaeus, 1758) – Bukhkalo et al., 2014:139 (*Eupithecia succenturiata exalbidata*, Tobolsk). **TO:** Abramova, 17.VII.2020 – 2 spm. D.E. Galich; Andreevskoe, 23.VII.1988 – 2 spm. P.S. Sitnikov, 25.VI.2000, 13.VII.2002 – 5 spm. A.A. Sizov; Big Krasnoyar, 18.VII.2001 – 4 spm. A.A. Sizov; Vagai, 21.VI.2002 – 2 spm. A.A. Sizov; Ingair, 30.VI.1988, 22-23.VII.1990 – 3 spm. P.S. Sitnikov; Kazanskoe, 13.VII.2001 – 5 spm. A.A. Sizov; Komissarovo, 31.VII.2001

– 1 spm. A.A. Sizov; Mazurovo, 22, 26.VI.1988 – 4 spm. P.S. Sitnikov; Motushi, 2, 4.VII.1998 – 2 spm. P.S. Sitnikov; Nadtsy, 29-30.VI.1994 – 2 spm. P.S. Sitnikov; Tyumen, 3.VII.1987 – 1 spm. P.S. Sitnikov; Shashova, 10.VI.2020 – 1 spm. D.E. Galich.

201. **Eupithecia tantillaria* Boisduval, 1840 – **TO:** Andreevskoe, 24.VIII.1998 – 1 spm. A.A. Sizov; Velizhany, 16.VI.1998 – 2 spm. P.S. Sitnikov.

202. *Eupithecia thalictrata* (Püngeler, 1902) – Sizov, 2001:64 (Tuymen Region), 2002:151 (Kuchak).

203. *Eupithecia tripunctaria* Herrich-Schäffer, 1852 – Sizov, 2001:64 (Yamalo-Nenets Autonomous Okrug), 2002:151 (Gubkinsky); Sitnikov et al., 2004:282 (Gubkinsky); Red book of the Tyumen Region, 2004 (annex):463 (Yamalo-Nenets Autonomous Okrug).

204. **Eupithecia venosata* (Fabricius, 1787) – **TO:** Mazurovo, 26.VI.1988 – 1 spm. P.S. Sitnikov.

205. *Eupithecia virgaureata* Doubleday, 1861 – Sizov, 2001:64 (Tyumen Region), 2002:151 (Kuchak).

206. **Eupithecia vulgata* (Haworth, 1809) – **TO:** Andreevskoe, 13.VII.2002 – 1 spm. A.A. Sizov; Vagai, 21.VI.2002 – 4 spm. A.A. Sizov; Mazurovo, 22.VI.1988 – 1 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 2 spm. P.S. Sitnikov; Tyumen, 31.V, 9.VI.1981, 11.VI.1987 – 3 spm. P.S. Sitnikov, 26.VII.1999 – 1 spm. A.A. Sizov; Yalutorovsk, 16.VI.1997 – 2 spm. P.S. Sitnikov.

207. *Melanthia mandschuricata* (Bremer, 1864) – Vasilenko, 2003:307 (*Mesoleuca*, Oktyabrskoe); Lomakin et al., 2001:362 (Nadtsy); Red book of the Tyumen Region, 2004:145 (Nadtsy); Sitnikov et al., 2013:127 (Nadtsy).

208. *Melanthia procellata* ([Denis et Schiffermüller], 1775) – Sitnikov et al., 2004:282 (Dubrovnoe, Ingair, Kultybaika); Red book of the Tyumen Region, 2004 (annex):463 (Tyumen Region). **TO:** Andreevskoe, 13.VII.2002 – 1 spm. A.A. Sizov; Motushi, 4.VII.1998 – 1 spm. P.S. Sitnikov.

209. *Horisme aemulata* (Hübner, 1813) – Lomakin et al., 2001:362 (Ingair, Nadtsy); Red book of the Tyumen Region, 2004:144 (Ingair, Nadtsy); Sitnikov et al., 2013:127 (Ingair, Nadtsy).

210. **Horisme tersata* ([Denis et Schiffermüller], 1775) – **TO:** Andreevskoe, 18, 22.VI.1988 – 2 spm. P.S. Sitnikov, 13.VII.2002 – 1 spm. A.A. Sizov; Vagai, 21.VI.2002 – 1 spm. A.A. Sizov; Ingair, 16.VI.1991 – 1 spm. P.S. Sitnikov; Nadtsy, 29.VI.1994 – 1 spm. P.S. Sitnikov.

211. **Horisme vitalbata* (Denis et Schiffermüller, 1775) – **TO:** Andreevskoe, 4, 18.VI.1988, 23.VI.1998 – 3 spm. P.S. Sitnikov.

212. **Anticollix sparsata* (Treitschke, 1828) – **KMAO:** Nefteyugansk, 17.VII.1986 – 1 spm. P.S. Sitnikov. **TO:** Kuchak, 18.VII.1998 – 1 spm. A.A. Sizov; Nadtsy, 30.VI.1994 – 1 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VII.2001 – 1 spm. A.A. Sizov; Sladkovo, 28.VI.1990 – 1 spm. P.S. Sitnikov.

213. **Lythria cruentaria* (Hufnagel, 1767) – **TO:** Andreevskoe, 11.VIII.1987, 22.V.1998 – 2 spm. P.S. Sitnikov; Dubrovnoe, 8, 12.VII.1999 – 2 spm. P.S. Sitnikov;

Embaevo, 13.VIII.1999 – 1 spm. P.S. Sitnikov; Sundunkul, 26.VI.1997 – 1 spm. P.S. Sitnikov; Tyumen (SE), 9.V.1982 – 2 spm. P.S. Sitnikov; Uporovo, 9.VI.1989 – 1 spm. P.S. Sitnikov.

214. *Lythria purpuraria* (Linnaeus, 1758) – Shchuko, 1916:148 (Karasulskaya). **TO:** Andreevskoe, 24.VIII.1998 – 1 spm. A.A. Sizov; Vlasovo, 8.V.1997 – 1 spm. P.S. Sitnikov; Gulyai-Pole, 23.VI.1990 – 1 spm. P.S. Sitnikov; Kamenka, 18.VI.1991 – 1 spm. no collector specified; Maika, 29.VI.1990 – 1 spm. P.S. Sitnikov; Motushi, 6.VII.1998 – 1 spm. P.S. Sitnikov; Salairka, 28.VII.1998 – 1 spm. P.S. Sitnikov; Tavolzhan, 25.VII.1996 – 3 spm. P.S. Sitnikov; Tavolzhan (Island), 19.VI.1990 – 2 spm. P.S. Sitnikov.

Sterrhinae

215. *Rhodostrophia vibicaria* (Linnaeus, 1758) – Shchuko, 1916:148 (Karasulskaya); Bukhkalo et al., 2014:137 (Tobolsk). **TO:** Andreevskoe, 18, 22, 23.VI.1988, 23.V.1991, 18.VI.1998 – 5 spm. P.S. Sitnikov; Vedenyatskoe, 12.VI.1989 – 1 spm. P.S. Sitnikov; Vlasovo, 15.VI.1990 – 1 spm. P.S. Sitnikov; Dubrovnoe, 6.VII.1999 – 1 spm. P.S. Sitnikov; Ingair, 30.VI.1988 – 1 spm. P.S. Sitnikov; Kuchak, 30.VI. 1, 11.VII.1998 – 5 spm. A.A. Sizov; Mazurovo, 22.VI.1988, 26.VI.1998 – 2 spm. P.S. Sitnikov; Maryino gorge, 19.VII.2019 – 1 spm. D.E. Galich; Motushi, 4.VII.1998 – 1 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 2 spm. P.S. Sitnikov; Tyumen (NW), 8.VII.1988 – 1 spm. P.S. Sitnikov.

216. *Idaea aureolaria* ([Denis et Schiffermüller], 1775) – Shchuko, 1916:148 (*Acidalia trilineata*, Karasulskaya). **TO:** Velizhany, 16.VI.1998 – 4 spm. P.S. Sitnikov; Travnoe, 20.VI.1990 – 1 spm. P.S. Sitnikov; Shashova, 17.VI.1997 – 1 spm. P.S. Sitnikov.

217. *Idaea aversata* (Linnaeus, 1758) – Shchuko, 1916:148 (*Acidalia*, Karasulskaya); Bukhkalo et al., 2014:137 (Tobolsk). **TO:** Abatsky, 10.VII.2001 – 8 spm. A.A. Sizov; Andreevskoe, 23.VII.1988 – 1 spm. P.S. Sitnikov; Big Krasnoyar, 18.VII.2001 – 1 spm. A.A. Sizov; Kuchak, 24, 30.VI, 1, 13, 15, 18.VII.1998 – 8 spm. A.A. Sizov; Nadtsy, 25.VIII.1986, 27.VI.1991, 30.VI.1994 – 3 spm. P.S. Sitnikov; Tyumen, 27.VIII.1986, 3.VII.1987, 12.VIII.1999 – 3 spm. P.S. Sitnikov.

218. **Idaea biselata* (Hufnagel, 1767) – **KMAO:** Malinovsky, 8.VIII.2002 – 2 spm. A.A. Sizov; Tayozhny, 9, 10.VIII.2002 – 3 spm. A.A. Sizov. **TO:** Andreevskoe, 23.VII.1988 – 1 spm. P.S. Sitnikov, 30.VII.1999, 13.VII.2002 – 2 spm. A.A. Sizov; Big Krasnoyar, 18, 19.VII.2001 – 5 spm. A.A. Sizov; Vinokurova, 4.VIII.1999 – 1 spm. A.A. Sizov; Ingair, 24.VI, 22, 25.VII.1990 – 3 spm. P.S. Sitnikov; Komissarovo, 31.VII.2001 – 1 spm. A.A. Sizov; Kuchak, 10, 18.VII.1998 – 2 spm. A.A. Sizov; Tyumen, 26.VII.1999 – 1 spm. A.A. Sizov.

219. **Idaea descitaria* (Christoph, 1893) – **TO:** Andreevskoe, 21.VI.1998 – 1 spm. A.A. Sizov; Vlasovo, 19.VI.1990 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 2 spm. P.S. Sitnikov; Tyumen, 9.VI.1980 – 1 spm. P.S. Sitnikov, 12.VI.1999, 3.VII.2002 – 2 spm. A.A. Sizov.

220. *Idaea dimidiata* (Hufnagel, 1767) – Sizov, 2001:64 (*Sterrha*, Tyumen Region); Bukhkalo et al., 2014:137 (Tobolsk). **TO:** Abatsky, 10.VII.2001 – 1 spm. A.A. Sizov; Andreevskoe, 30.VIII.1999, 13.VII.2002 – 5 spm. A.A. Sizov; Big Krasnoyar, 18-19.VII.2001 – 2 spm. A.A. Sizov; Komissarovo, 31.VII.2001 – 1 spm., A.A. Sizov; Kuchak, 1, 3, 10, 11, 18.VII.1998 – 5 spm. A.A. Sizov.

221. *Idaea emarginata* (Linnaeus, 1758) – Sizov, 2001:64 (*Sterrha*, Tyumen Region); Bukhkalo et al., 2014:137 (Tobolsk).

222. *Idaea mancipiata* Staudinger, 1871 – Sitnikov et al., 2004:281 (*Sterrha*, Tavolzhan); Red book of the Tyumen Region, 2004:463 (*Sterrha* , Tyumen Region).

223. *Idaea muricata* (Hufnagel, 1767) – Bukhkalo et al., 2014:137 (Tobolsk). **TO:** Andreevskoe, 13.VII.2002 – 2 spm. A.A. Sizov; Dubrovnoe, 8.VII.1999 – 1 spm. P.S. Sitnikov; Kultybaika, 7.VII.1997 – 1 spm. P.S. Sitnikov; Kuchak, 3.VII.1998 – 1 spm. A.A. Sizov; Motushi, 4.VII.1998 – 1 spm. P.S. Sitnikov; Peña, 1.VII.1994 – 1 spm. P.S. Sitnikov; Tobolsk, 7.VII.2009 – 1 spm. D.E. Galich.

224. *Idaea ochrata* (Scopoli, 1763) – Mershalova, Polushkina, 1967:138 (*Sterrha*, Tyumen).

225. **Idaea pallidata* ([Denis et Schiffermüller], 1775) – **TO:** Kuchak, 27.VI.1999 – 1 spm. A.A. Sizov; Staraya Shadrina, 11.VI.1989 – 2 spm. P.S. Sitnikov; Tyuleshov bor, 23.V.1997 – 1 spm. P.S. Sitnikov; Tyumen, 11.VI.1987 – 1 spm. P.S. Sitnikov.

226. *Idaea serpentata* (Hufnagel, 1767) – Korshunov, 1973b:182 (*Ptychopoda*, Sokolovka). **TO:** Abatsky, 10.VII.2001 – 1 spm. A.A. Sizov; Dubrovnoe, 3, 7.VII.1999 – 2 spm. P.S. Sitnikov; Zavalnoye cemetery, 22.VI.2007 – 1 spm. D.E. Galich; Kuchak, 8, 11, 18.VII.1998 – 6 spm, A.A. Sizov; Mazurovo, 3.VII.1981 – 1 spm. P.S. Sitnikov; Maika, 29.VI.1999 – 1 spm. P.S. Sitnikov; Motushi, 2.VII.1998 – 1 spm. P.S. Sitnikov; Ostropyatovo, 27.VI.1990 – 1 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov; Sladkovo, 20.VII.1996 – 1 spm. P.S. Sitnikov.

227. *Idaea straminata* (Borkhausen, 1794) – Sizov, 2001:64 (*Scopula inornata*, Tyumen Region).

228. **Idaea sylvestraria* (Hübner, 1799) – **TO:** Abramova, 17.VII.2020 – 1 spm. D.E. Galich; Andreevskoe, 23.VII.1988 – 1 spm. P.S. Sitnikov, 25.VI.2000 – 1 spm. A.A. Sizov; Dubrovnoe, 5.VII.1998, 2.VII.1999 – 2 spm. P.S. Sitnikov; Ingair, 16.VI.1991 – 1 spm. P.S. Sitnikov; Kultybaika, 7.VII.1996 – 1 spm. P.S. Sitnikov; Kuchak, 11.VII.1998 – 1 spm. A.A. Sizov.

229. *Holarctias rufinaria* (Staudinger, 1861) – Olshvang, 1992:46 (river floodplain Khadytayakhi); Hausmann, 2004 (Krasnyi Kamen`). **YNAO:** Krasnyi Kamen`, 1-13.VII.2017 – 3 males, V.O. Zurilina.

230. *Scopula cajanderi* (Herz, 1904) – Hausmann, 2004: (Krasnyi Kamen`). **YNAO:** Krasnyi Kamen`, 12.VII.2012 – 1 male, 1 female, S.A. Knyazev.

231. *Scopula corrivalaria* (Kretschmar, 1862) – Bukhkalo et al., 2014:137 (Tobolsk). **TO:** Andreevskoe, 09, 22.VII.1988 – 2 spm. P.S. Sitnikov, 25.VI.2000 – 2 spm. A.A. Sizov; Dubrovnoe, 5.VII.1998 – 2 spm. P.S. Sitnikov; Kuchak, 10.VII.1998 – 1 spm. A.A. Sizov.

232. **Scopula floslactata* (Haworth, 1809) – **TO:** Andreevskoe, 11, 18.VI.1988, 23.V.1991 – 3 spm. P.S. Sitnikov; Vedenyatskoe, 12.VI.1989 – 1 spm. P.S. Sitnikov; Ingair, 30.VI.1988 – 1 spm. P.S. Sitnikov; Kuchak, 27.VI.1999 – 1 spm. A.A. Sizov; Skiing lodge, 11.VI.2006 – 1 spm. D.E. Galich; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov; Tyumen (E), 29.V.1991 – 1 spm. P.S. Sitnikov; Uspenka, 19.VI.1998 – 1 spm. P.S. Sitnikov.

233. *Scopula frigidaria* (Möschler, 1860) – Sizov, 2001:66 (Yamalo-Nenets Autonomous Okrug); Sitnikov et al., 2004:282 (Muravlenko); Red book of the Tyumen Region, 2004:463 (Yamalo-Nenets Autonomous Okrug).

234. *Scopula immorata* (Linnaeus, 1758) – Mershalova, Polushkina, 1967:138 (Tyumen). **TO:** Andreevskoe, 4.VI, 18, 22.VII.1988, 23, 29.V.1991 – 5 spm. P.S. Sitnikov; Vagai, 21.VI.2002 – 2 spm. A.A. Sizov; Vlasovo, 15.VI.1990 – 3 spm. P.S. Sitnikov; Ingair, 30.VI.1988 – 1 spm. P.S. Sitnikov; Kuchak, 1.VII.1998, 26.VI.1999 – 2 spm. A.A. Sizov; Lipovoe, 14.VI.1992 – 1 spm. P.S. Sitnikov; 26.VI.1980, 21.VI.1986 – 4 spm. P.S. Sitnikov; Nadtsy, 29.VI.1994 – 1 spm. P.S. Sitnikov; Onokhino, 10.VI.1996 – 1 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov; Tyumen (NW), 8.VII.1988 – 1 spm. P.S. Sitnikov; Shashova, 10.VI.2020 – 3 spm. D.E. Galich; Yalutorovsk, 16.VI.1996 – 1 spm. P.S. Sitnikov.

235. **Scopula immutata* (Linnaeus, 1758) – **TO:** Andreevskoe, 9.VII.1988 – 1 spm. P.S. Sitnikov; Ingair, 30.VI.1988, 22.VII.1990 – 2 spm. P.S. Sitnikov; Kuchak, 11, 15, 18.VII.1998 – 6 spm. A.A. Sizov; Peña, 1.VII.1994 – 1 spm. P.S. Sitnikov; Sladkovo, 28.VI.1990 – 1 spm. P.S. Sitnikov.

236. **Scopula incanata* (Linnaeus, 1758) – **TO:** Andreevskoe, 23.VI.1988 – 1 spm. P.S. Sitnikov, 25.VI.2000 – 1 spm. A.A. Sizov; Kultybaika, 11.VII.1997 – 1 spm. P.S. Sitnikov.

237. *Scopula nemoraria* (Hübner, [1799]) – Tschugunov, 1914:447 (*Acidalia*, near the Saimaa river (Khanty-Mansi Autonomous Okrug-Yugra). **TO:** Kultybaika, 8.VIII.1994 – 1 spm. P.S. Sitnikov; Big Kunchur, 26.VI.2002 – 2 spm. A.A. Sizov; Kuchak, 1.VII.1998 – 1 spm. A.A. Sizov; Sladkovo, 28.VI.1990 – 1 spm. P.S. Sitnikov; Tyumen, 20.VI.1999 – 1 spm. A.A. Sizov.

238. *Scopula ornata* (Scopoli, 1763) – Sitnikov et al., 2004:281 (Andreevskoe); Red book of the Tyumen Region, 2004:463.

239. *Scopula rubiginata* (Hufnagel, 1767) – Shchuko, 1916:148 (*Acidalia*, Karasulskaya). **TO:** Andreevskoe, 4, 18.VI, 22-23.VII.1988 – 4 spm. P.S. Sitnikov, 13.VII.2002 – 1 spm. A.A. Sizov; Vedenyatskoe, 12.VI.1989 – 1 spm. P.S. Sitnikov; Vlasovo, 15.VI.1990 – 2 spm. P.S. Sitnikov; Dubrovnoe, 4.VII.1999 – 1 spm. P.S. Sitnikov; Rechkina, 14-15.VIII.1989 – 2 spm. O.G. Krevskaya; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov; Tavolzhan, 26.VII.1996 – 1 spm. P.S. Sitnikov; Tyumen (NW), 8.VII.1988 – 1 spm. P.S. Sitnikov.

240. *Scopula ternata* (Schrank, 1802) – Korshunov, 1973b:182 (*Cidaria*, Durynina); (Olshvang, 1992:46 (river floodplain Khadytayakhi). **TO:** Andreevskoe, 22.VI.1988 – 1 spm. P.S. Sitnikov; Ingair, 30.VI.1988 – 1 spm. P.S. Sitnikov; Kuchak,

1, 3, 15, 24, 26, 27.VII.1998 – 9 spm. A.A. Sizov; Motushi, 2, 4, 6.VII.1998 – 3 spm. P.S. Sitnikov; Nadtsy, 29.VI.1994 – 2 spm. P.S. Sitnikov; Novoatyalovo, 26.VI.1996 – 1 spm. P.S. Sitnikov; Peña, 1.VII.1994 – 4 spm. P.S. Sitnikov; Sladkovo, 20.VII.1996 – 3 spm. P.S. Sitnikov; Tavolzhan (Island), 26.VII.1998 – 1 spm. P.S. Sitnikov.

241. **Scopula umbelaria* (Hübner, 1798) – **TO:** Andreevskoe, 4, 18.VI.1988, 18.VI.1988 – 3 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov; Tyuleshov bor, 23.V.1997 – 1 spm. P.S. Sitnikov; Tyumen (NW), 8.VII.1988 – 1 spm. P.S. Sitnikov; Tyumen (E), 29.V.1991 – 1 spm. P.S. Sitnikov.

242. *Scopula virginalis* (Fourcroy, 1785) – Sizov, 2001:64 (*caricaria*, Tuymen Region); Sitnikov et al., 2004:281 (*caricaria*, Kuchak); Red book of the Tyumen Region, 2004:463 (*caricaria*, Tyumen Region). **TO:** Missia, 10.VII.2006 – 1 spm. D.E. Galich.

243. **Scopula virgulata* ([Denis et Schiffermüller], 1775) – **TO:** Andreevskoe, 22.VI, 9, 22.VII.1988 – 4 spm. P.S. Sitnikov; Dubrovnoe, 5.VII.1998 – 1 spm. P.S. Sitnikov; Motushi, 4.VII.1998 – 1 spm. P.S. Sitnikov.

244. **Cyclophora albipunctata* (Hufnagel, 1767) – **TO:** Shashova, 4.VIII.2020 – 1 spm. D.E. Galich.

245. *Cyclophora pendularia* (Clerck, 1759) – Olshvang, 1992:46 (river floodplain Khadytayakhi). **YNAO:** Krasnoselkup, 11.VII.1989 – 1 spm. P.S. Sitnikov. **KMAO:** Numto, 30.VIII.1990 – 1 spm. P.S. Sitnikov. **TO:** Andreevskoe, 9.VII.1988 – 1 spm. P.S. Sitnikov; Vlasovo, 15.VI.1990 – 1 spm. P.S. Sitnikov; Ingair, 30.VI.1988 – 2 spm. P.S. Sitnikov; Onokhino, 10.VI.1996 – 1 spm. P.S. Sitnikov; Staraya Shadrina, 11.VI.1989 – 1 spm. P.S. Sitnikov.

246. *Timandra comae* Schmidt, 1931 – Tschugunov, 1914 (*amata*, Khanty-Mansi Autonomous Okrug-Yugra); Shchuko, 1916:148 (*amata*, Karasulskaya); Bukhkalo et al., 2014:137-138 (*T. griseata* = *Calothysanis amata*, Tobolsk, Missia). **TO:** Abramova, 8.IX.2018 – 2 spm. D.E. Galich; Andreevskoe, 4, 18.VI, 22-23, 30.VII, 22.VIII.1988 – 6 spm. P.S. Sitnikov, 9, 24.VIII.1998 – 3 spm. A.A. Sizov; Vedenyatskoe, 12.VI.1989 – 1 spm. P.S. Sitnikov; Vlasovo, 15.VI.1990 – 1 spm. P.S. Sitnikov; Kuchak, 13.VII.1998 – 1 spm. A.A. Sizov; Maryino gorge, 22.VIII.2019 – 1 spm. D.E. Galich; Nadtsy, 29.VI.1994 – 1 spm. P.S. Sitnikov; Sinitsynsky bor, 10.VI.1997 – 1 spm. P.S. Sitnikov; Sladkovo, 20.VII.1996 – 1 spm. P.S. Sitnikov; Tavolzhan, 26.VII.1996 – 1 spm. P.S. Sitnikov; Tyumen, 27.VIII.1986, 14.VII.1993 – 2 spm. P.S. Sitnikov; Tyumen (E), 29.V.1991 – 1 spm. P.S. Sitnikov; Chervishevo, 21.VII.1988 – 1 spm. P.S. Sitnikov; Yalutorovsk, 16.VI.1996 – 1 spm. P.S. Sitnikov.

247. *Timandra rectistrigaria* (Eversmann, 1851) – Lomakin et al., 2001:362 (Pripolyarnyi); Hausmann, 2004 (Krasnyi Kamen`); Red book of the Tyumen Region, 2004: 141 (Pripolyarnyi); Sitnikov et al., 2013:126 (Pripolyarnyi). **YNAO:** Krasnyi Kamen`, 28.VI.2017 – 1 male, V.O. Zurilina.

A list of questionable and erroneous species

Yezognophos dilucidaria ([Denis et Schiffermüller], 1775) – Mershalova, Polushkina, 1967:138 (*Gnophos dilucidaria*, TO). Misidentification.

Psodos alpinata (Scopoli, 1763) – Olshvang, 1992:46 (river floodplain Khadytayakhi). Probably misidentification of *Glacies coracina* (Esper, 1805).

Aspitates insigna (Alphéraky, 1883) – Shuhov, 1914:25 (*Aspilates insigus* (?), Khanty-Mansi Autonomous Okrug-Yugra). Misidentification.

Schistostege decussata ([Denis et Schiffermüller], 1775) – Shchuko, 1916:148 (*Siona decussata*, Karasulskaya). Misidentification.

Nothocasis sertata (Hübner, [1817]) – Bukhkalo et al., 2014:139 (Tobolsk). Misidentification.

Xanthorhoe incursata (Hübner 1813 ["1796"]) – Shuhov, 1914:25 (*Lorentia incursata* (?), Khanty-Mansi Autonomous Okrug-Yugra). Misidentification.

Eupithecia pauxillaria Boisduval, 1840 – Korshunov, 1973b:183 (*Eupithecia euphrasia*, Tobolsk). Misidentification.

Horisme radicaria (de La Harpe, 1855) – Sitnikov et al., 2004:282 (*Horisme laurinata*, Ingair); Red book of the Tyumen Region, 2004 (annex):463 (*laurinata*, Tyumen Region). Probably misidentification of *Horisme tersata* ([Denis et Schiffermüller], 1775).

Scopula herzii Vasilenko, 2000 – Sizov, 2001:64 (vicinity of Noyabrsk). Misidentification of *Scopula frigidaria* (Möschler, 1860).

Lythria plumularia (Freyer, 1831) – Tschugunov, 1917:18 (Khanty-Mansi Autonomous Okrug-Yugra). Probably a misidentification of the dark form of *Lythria cruentaria* (Hufnagel, 1767).

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References

Beljaev EA, Mironov VG (2019) Geometridae. In: S.Yu. Sinev (Ed.) Catalogue of the Lepidoptera of Russia. Edition 2. Zoological Institute RAS, St. Petersburg, 235–281. [In Russian]

Bukhkalo SP, Galich DE, Sergeeva EV, Vazhenina NV (2014) Abstract of invertebrate fauna of the southern taiga of Western Siberia (lower of Irtysh basin). LLC Partnership of Scientific Publications KMK, Moscow, 137–142. [In Russian]

Fridolin VYu (1935) Fauna of the Northern Urals as a zoogeographic unit and as a biocenotic whole. In: Kalesnik SV (Ed.) Ural. Subpolar Regions. Proceedings of glacial expeditions, 4: 245–270. [In Russian]

Galich DE (2013) About the findings of protected species of insect (Insecta: Odonata, Homoptera, Lepidoptera) in Tobolsk and Uvatsky districts of the Tyumen region. Animal ecology and faunistics, 9: 37–40. [In Russian]

Hausmann A (2004) Sterrhinae. In: Hausmann A (ed.) The Geometrid Moths of Europe 2. Apollo Books, Stenstrup, 600 pp.

Kalinin VM (Ed.) (2012) Natural Park «Kondinsky Lakes». UIPC, Yekaterinburg, 235 pp. [In Russian]

Kolosov YuM (1933) Materials to the fauna of insects of the Tobolsk North. Proceedings of the Ural Regional Institute of Microbiology and Epidemiology, 1 (1): 49–58. [In Russian].

Korshunov YuP (1973a) To the entomofauna of the north part of middle taiga in West Siberia. In: Krylov GV (Ed.) The nature of the taiga in Western Siberia. Nauka, Novosibirsk, 136–151. [In Russian]

Korshunov YuP (1973b) Lepidoptera from the collection of the Tobolsk Local Lore Museum. Fauna Sibiri 2: 181–203. [In Russian]

Lomakin DE, Menshchikov AG, Sitnikov PS, Sharapova TA (2001) About the criteria of insect selection for inclusion in the Red book of the Tyumen Region. New faunistic finds. Yearbook of the Tyumen Regional Museum of Local Lore 14: 349–366. [In Russian]

Mershalova AF, Polushkina EA (1967) Overview of Lepidoptera and Coleoptera in the southern part of Tyumen Region. Proceedings of the Tyumen Agricultural Institute, 5: 123–140. [In Russian]

Müller B, Erlacher S, Hausmann A, Rajaei H, Sihvonen P, Skou P (2019) Ennominae II. In: Hausmann A, Sihvonen P, Rajaei H, Skou P (Eds). The Geometrid Moths of Europe 6. Brill, Leiden, 906 pp.

Olshvang VN (1992) The structure and dynamics of the insect population of South Yamal. Nauka, Yekaterinburg, 44–46. [In Russian]

Red book of the Tyumen Region: Animals, plants and mushrooms (2004). Ural University Press, Yekaterinburg, 141–155, 463. [In Russian]

Red book of the Tyumen Region: Animals, plants and mushrooms (2019) The electronic version of the manuscript of the new edition. https://admtyumen.ru/ogv_ru/about/redbook/redbook.htm [In Russian]

Red book of the Yamalo-Nenets Autonomous Okrug: Animals, plants and mushrooms (2010). Yekaterinburg, Basco, 222, 224. [In Russian]

Shchuko VA (1916) Collection of Lepidoptera in 1915 in the Yalutorovsky and Ishimsky districts of the Tobolsk province and in the vicinity of Tyumen. Revue Russe d´Entomologie 16 (1–2): 148–149. [In Russian]

Shuhov IN (1914) Schuch'ya River: Geographical description of the river and travels to its valley in 1913. Yearbook of the Tobolsk Provincial Museum 22: 32pp. [In Russian]

Sitnikov PS, Lomakin DE, Ivanov SA (2013) The suggestion on updating the main list of rare species of invertebrates in the Red List of the Tyumen province. Animal ecology and faunistic 9: 118–137. [In Russian]

Sitnikov PS, Lomakin DE, Sharapova TA (2004) Rare species of invertebrate animals of the 4th category in the Red Book of the Tyumen Region. Yearbook of the Tyumen Regional Museum of Local Lore 17: 269–292. [In Russian]

Sizov AA (2001) Geometrid-Moths of the Tyumen Region. Ecology, monitoring and rational use of natural resources 307 (1): 59–67. [In Russian]

Sizov AA (2002) New and interesting finds of the genus *Eupithecia* (Lepidoptera, Geometridae), discovered during the expeditionary research from 1998 to 2001 in the Tyumen Region. Ecology, monitoring and rational use of natural resources 318: 150–152. [In Russian]

Sizov AA (2003) Economically significant species of Geometrid-Moths of the Tyumen Region. Collection of scientific articles of doctoral and postgraduate students of Moscow State Forest University 322 (4): 146–148. [In Russian]

Sizov AA (2004) Geometrid-Moths of the Tyumen Region (species composition, distribution, monitoring). Dissertation for the degree of Candidate of Biological Sciences. Moscow State Forest University, Moscow, 165 pp. [In Russian]

Skou P, Sihvonen P (2015) Subfamily Ennominae 1. In: Hausmann A (Ed.) The Geometrid Moths of Europe 5. Apollo Books, Stenstrup, 657 pp.

Stolbov VA, Galich DE, Lomakin DE (2017) New Data on Rare Insects and Arachnids of the Tyumen Region. Tyumen State University Herald. Natural Resource Use and Ecology 3 (2): 81–94. https://doi.org/10.21684/2411-7927-2017-3-2-81-94 [In Russian]

Strelnikova OG, Moseevsky AS (2018) Lepidoptera – collections from Yugansky Nature Reserve. Biological collections of Yugra: collecting, fixation, storage, introduction into scientific circulation 2: 42–46. [In Russian]

Tolstikov AV (2004) Finds of interesting and new species of insects of the Tyumen Region In: Slovtsov readings 16 (2). Materials of reports and messages. All-Russian Scientific and Practical conference, Tyumen, 17–18 November 2004. Tyumen Press, Tyumen, 30–31. [In Russian]

Tolstikov AV, Kuzmin IV, Stolbov VA (2013) Protected invertebrates of the Tyumen Region in the collection of Tyumen State University Zoological Museum. Animal ecology and faunistic 9: 161–167. [In Russian]

Tschetverikov SS (1911) Lepidoptera of the Yamal Peninsula, taken by the expedition of B.M. Zhitkov in 1908. Yearbook of the Imperial Academy of Sciences Zoological Museum 16 (1): 29–36. [In Russian]

Tschugunov SM (1914) Lepidoptera collected in the summer of 1913 in the Surgut district of the Tobolsk province. Revue Russe d'Entomologie 14 (4): 445–448. [In Russian]

Tschugunov SM (1917) From Tobolsk to Obdorsk in the summer of 1915. Yearbook of the Tobolsk Provincial Museum 28: 1–18. [In Russian]

Tschugunov SM (1925) Contribution a la faune lepidopteres du gouvernement de Tobolsk. Revue Russe d'Entomologie 19 (1): 69–71. [In Russian]

Vasilenko SV (1990) The species overview of the group *Entephria polata* Dub. (Lepidoptera, Geometridae). Taxonomy of insects and helminths. Nauka, Novosibirsk, 79–89. [In Russian]

Vasilenko SV (2002) To the fauna of Geometrid Moths (Lepidoptera, Geometridae) of Siberia and the Far East. Entomological Review 81 (6): 686–692. [In Russian]

Vasilenko SV (2003) Some interesting records of geometer-moths (Lepidoptera, Geometridae) from Siberia. Eurasian Entomological Journal 2 (4): 305–308. [In Russian, with English summary]

Vasilenko SV (2007) A new species of the genus *Xanthorhoe* (Lepidoptera, Geometridae, Larentiinae) from the Urals and Western Siberia. Entomological Review 87 (7): 920–922. https://doi.org/10.1134/S0013873807070147 [In Russian]

Vnukovsky VV (1927) Revision de la faune des Lepidopteres des districts de Tomsk et de Tobolsk de la Siberie occidentale. Revue Russe d'Entomologie 21 (1–2): 107–118. [In Russian]

Supplementary material 1

Map 1. Schematic map of the collection sites of Geometrid moths in the Tyumen Region (including Autonomous Okrugs)

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Data type: Image

Explanation note: Schematic map of the collection sites of Geometrid moths in the Tyumen Region (including Autonomous Okrugs). Yamalo-Nenets Autonomous Okrug – 1-15 collection sites; Khanty-Mansi Autonomous Okrug-Yugra – 16-35 collection sites; Tyumen Region (without Autonomous Okrugs) – 36-126 collection sites.

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